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# Fertilizer Report

January 1 to July 31, 1922

JAMES W. KELLOGG, Chief Chemist

BUREAU OF CHEMISTRY



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PENNSYLVANIA  
DEPARTMENT OF AGRICULTURE  
Bureau of Chemistry

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PRODUCTS ANALYZED

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OFFICIAL SAMPLES SECURED BY SPECIAL AGENTS

FERTILIZERS

FEEDING STUFFS

LINSEED OIL

PAINT

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TURPENTINE

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---

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FEEDING STUFFS, \$1.00

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## CONTENTS.

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	Page.
Letter of Transmittal. ....	5
Introduction. ....	7
Acknowledgements, ....	9
Table I—Deficiencies. ....	10
Table II—Average Analyses and Retail Prices, ....	10
Table III—Average Analyses of Complete Fertilizers by Formula Grades. ....	11
Key to Tables, ....	12
Table IV—Analyses of Complete Fertilizers. ....	14
Table V—Analyses of Nitrogen and Phosphoric Acid Fertilizers. ....	50
Table VI—Analyses of Ground Bone Fertilizers, ....	56
Table VII—Analyses of Acidulated Phosphate Fertilizers, ....	60
Table VIII—Analyses of Rock and Potash Fertilizers, ....	72
Table IX—Analyses of Miscellaneous Fertilizers, ....	80

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LETTER OF TRANSMITTAL.

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PENNSYLVANIA DEPARTMENT OF AGRICULTURE  
BUREAU OF CHEMISTRY

Harrisburg, Pa., December 15, 1922.

Hon. Fred Rasmussen,

Secretary of Agriculture,

Harrisburg, Pa.

Dear Sir:—I have the honor to transmit herewith for your approval a report of the results of the inspection of commercial fertilizers received from the authorized special sampling Agents during the Spring season of 1922, showing in detail the chemical analyses of samples with explanatory remarks.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,

Chief Chemist.



# FERTILIZER REPORT

January 1 to July 31, 1922.

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## INTRODUCTION

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In conformity with the provisions of the Fertilizer Law an inspection of the brands of Commercial Fertilizers sold during the Spring season of 1922, resulted in 1565 official samples being selected by the Special Agents of the Bureau of Chemistry from the selling Agents throughout the State. These samples, together with reports for each, showing the information found printed upon sacks or attached cards and retail selling prices, were submitted for examination. After eliminating those of duplicate brands where a larger number were received than needed, 1324 samples, representing 751 brands registered by 68 manufacturing companies, were analyzed in order to determine the correctness of guarantees. They included six classes, which, together with the number of samples and brands in each, were as follows: Complete Fertilizers, 793-451; Nitrogen and Phosphoric Acid Fertilizers, 72-54; Ground Bone Fertilizers, 35-22; Acidulated Phosphate Fertilizers, 187-72; Rock and Potash Fertilizers, 130-78; and Miscellaneous Fertilizers, 107-74. The Miscellaneous Fertilizers included, with number of samples, the following materials:—Nitrate of Soda, 34; Sulphate of Ammonia, 9; Dried Blood, 2; Dried Fish, 3; Tankage, 18; Kainit, 2; Muriate of Potash, 26; Sulphate of Potash, 5; Miscellaneous, 8.

Of the total number of samples analyzed, 219, or 16.5 per cent., were found to be deficient in one or more forms of plant food to the extent of .2 per cent. or more below their guarantees. These variations in the six classes were as follows:— Complete Fertilizers, total deficient 135, or 17 per cent., 44 in nitrogen, 57 in available phosphoric acid and 45 in potash; Nitrogen and Phosphoric Acid Fertilizers, total deficient 17, or 23.6 per cent., 4 in nitrogen and 13 in available phosphoric acid; Ground Bone Fertilizers, total deficient 14, or 40 per cent., 2 in nitrogen and 12 in total phosphoric acid; Acidulated Phosphate Fertilizers, total deficient 11, or 5.9 per cent., in available phosphoric acid.; Rock and Potash Fertilizers, total deficient 17, or 13.1 per cent., 9 in available phosphoric acid and 8 in



potash; Miscellaneous Fertilizers, total deficient 25, or 23.4 per cent., 14 in nitrogen, 7 in total phosphoric acid and 7 in potash. As will be noted by referring to the large Tables, showing results of analyses in detail, in many of the cases where there were deficiencies, "over-ages" occurred, which, in a measure, balanced the failures to meet guarantees and in the greater proportion of the samples analyzed the guarantees were exceeded. While only 16.5 per cent. of the total samples were deficient in one or more of their guaranteed constituents it cannot be said the results of the inspection work show as satisfactory a condition as desired. There were a number of shipments made where guarantees were absent and brand names incorrect compared with registrations, indicating lack of care on the part of the shippers.

The 793 samples of Complete Fertilizers, which included 451 different brands, showed a great variation in their formula compositions. There were 353 samples, representing 193 brands, which were guaranteed to contain 14 per cent. or more total plant food, thereby being classified as "high grade" fertilizers. These grades averaged 2.20 per cent. nitrogen, 8.91 per cent. available phosphoric acid and 5.98 per cent. water soluble potash, or a total of 17.09 per cent. The average retail selling price was \$34.76 a ton, which on the basis of the total analysis, would give a value of \$2.03 a unit for the plant food which they contained. The remaining 440 samples and 258 brands of Complete Fertilizers, which contained less than 14 per cent. of total plant food, averaged 1.25 per cent. nitrogen, 8.48 per cent. available phosphoric acid, 2.74 per cent. water soluble potash, a total of 12.47 per cent. The average retail selling value of these grades was \$27.58 a ton, which, based on the total analysis, would give a unit value of \$2.21. The average selling price of all the Complete Fertilizers was \$30.69 a ton. It will be noted that when the high grade fertilizers were purchased the unit value was 18¢ less than supplied by the low grade brands.

A study was made of the character of the organic nitrogen, as determined by the alkaline permanganate method, which indicates the "activity" of the nitrogen supplied by organic ammoniates. Composite samples were prepared in the case of Complete and Nitrogen and Phosphoric Acid Fertilizers by mixing together those samples which contained 14 per cent. or more, those containing from 12 to 14 per cent. and those which contained less than 12 per cent. of total plant food. In the case of the Complete Fertilizers the percentage "activity" of the organic nitrogen in each of the three grades was less than 50 per cent. In those containing from 12 to 14 per cent. and over 14 per cent. in the Nitrogen and Phosphoric Acid Fertilizers, the activity was estimated to be slightly above and in the samples containing less than 12 per cent. of total plant food the activity was



less than 50 per cent. These results show that the quality of this form of nitrogen or the materials supplying organic nitrogen was, as a rule, of poor grade.

The average retail value of available phosphoric acid, as supplied by the Acid Phosphate Fertilizers, was \$1.09 a unit, or  $5\frac{1}{2}\text{¢}$  a pound. By making use of this value for available phosphoric acid and the average analyses and retail selling prices estimated for the other classes of mixed fertilizers, average values of from \$1.28 to \$10.82 a unit, or 21¢ to 54¢ a pound, were determined for nitrogen and from \$0.76 to \$3.37 a unit, or 4¢ to 17¢ a pound for water soluble potash.

In the following pages will be found Acknowledgements, followed by Tables showing Deficiencies, Average Analyses and Retail Prices, Average Analyses of Complete Fertilizers by Formula Grades, showing the number of brands and samples of each grade with average analyses and retail prices; Key to large Tables, followed by Tables showing results of analyses in detail with guarantees, brand names, names and addresses of Manufacturers and selling Agents for each of the 1325 official samples analyzed.

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## ACKNOWLEDGMENTS

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Mr. V. B. Hausknecht, First Assistant Chemist, had charge of the reception and preparation of samples, supervision of the details of the analytical work and the making of duplicate analyses and check determinations, where required. Mr. H. E. Gensler performed the microscopical examinations and Mr. W. E. Huber supervised the preparation of tables and the assembling of the necessary data. The chemical analyses were made by the following assistant chemists: Messrs. G. J. Kuhlmann, Jr., F. B. Williams, C. R. Engle, Leroy Pennypacker and W. F. Boath. Samples were prepared for analysis by W. W. Cassel.

TABLE I.—DEFICIENCIES.

Classes of Fertilizers.	Number of samples.	Deficient in nitrogen.	Deficient in available phosphoric acid.	Deficient in potash.
Complete fertilizers, -----	793	44	57	45
Nitrogen and phosphoric acid fertilizers, -----	72	4	13	-----
Ground bone fertilizers, -----	35	2	*12	-----
Acidulated phosphate fertilizers, -----	187	-----	11	-----
Rock and potash fertilizers, -----	130	-----	9	8
Miscellaneous fertilizers, -----	107	14	7	7
Totals, -----	1324	64	109	60

\*Total phosphoric acid.

TABLE II.—AVERAGE ANALYSES AND RETAIL PRICES.

	Complete fertilizers.	Nitrogen and phosphoric acid fertilizers (dissolved bones, etc.)	Ground bone fertilizers.	Acidulated phosphate fertilizers.	Rock and potash fertilizers.
Number of samples, -----	793	72	35	187	130
Moisture, -----	% 5.81	% 4.38	% 5.21	% 4.11	% 5.28
Total nitrogen, -----	1.67	1.49	3.41	-----	-----
Total phosphoric acid, -----	9.59	11.72	23.15	17.06	11.09
Available phosphoric acid, -----	8.67	10.39	-----	16.25	10.48
Insoluble phosphoric acid, -----	0.92	1.33	-----	0.81	0.61
Potash, -----	4.18	-----	-----	-----	4.13
Mechanical analysis of bone:					
Fine, -----	-----	-----	63	-----	-----
Coarse, -----	-----	-----	37	-----	-----
Selling price, -----	\$30.69	\$27.45	\$43.21	\$17.72	\$25.32
Average selling price, Fall 1921, -----	\$32.88	\$31.56	\$43.53	\$22.07	\$29.66
Average selling price, Spring 1921, -----	\$39.36	\$34.45	\$55.02	\$25.20	\$33.73

TABLE III.—AVERAGE ANALYSES OF COMPLETE FERTILIZERS BY FORMULA GRADES.

Formula.	Number of brands.	Number of samples.	Nitrogen.	Phosphoric Acid.	Potash.	Price.
1/2-6-1,	1	1	0.64	6.26	1.55	\$23 00
1/2-7-2,	2	2	0.74	7.74	2.55	22 88
1/2-8-1,	4	4	0.63	7.86	1.45	23 38
1/2-8-2,	7	12	0.55	8.47	2.44	24 33
1/2-8-4,	1	1	0.64	8.53	4.76	24 00
3/4-8-3,	1	1	0.99	7.43	3.51	25 05
1-6-10,	1	2	0.90	6.39	10.89	30 00
1-7-1,	22	29	1.01	7.71	1.39	25 78
1-7-3,	2	4	0.93	7.59	3.59	25 00
1-7-4,	1	1	0.90	9.16	4.02	29 00
1-8-1,	28	51	1.09	8.29	1.38	24 68
1-8-2,	37	69	1.03	8.47	2.39	26 29
1-8-3,	3	3	0.97	9.38	3.35	24 22
1-8-4,	37	72	1.04	8.51	4.32	28 22
1-8-5,	4	6	1.28	8.62	5.16	31 16
1-8-6,	1	5	1.03	8.57	6.66	30 60
1-9-2,	7	14	1.00	9.53	2.34	26 64
1-9-3,	23	39	1.04	9.36	3.38	27 51
1-9-4,	1	2	1.23	9.96	4.02	24 69
1-10-1,	4	4	1.02	10.22	1.15	29 06
1-10-2,	2	2	1.03	11.09	2.13	28 75
1-11-2,	1	1	1.13	11.02	3.16	32 00
1-12-1,	1	2	1.03	12.22	1.49	34 00
1 1/4-8-2,	1	1	1.37	8.60	2.37	27 00
1 1/2-8-4,	1	1	1.02	8.68	2.33	32 25
1 1/2-9-3,	1	1	1.29	8.92	4.33	
1 3/4-7-2,	1	4	1.80	7.48	2.68	30 50
1 3/4-7-3,	1	1	1.75	8.04	3.76	31 00
1 3/4-9-1,	1	1	1.90	8.04	1.22	42 00
1 3/4-9-2,	1	1	1.85	10.83	2.31	28 00
2-4-10,	1	1	1.90	8.52	10.09	37 00
2-5-4,	1	1	1.86	8.70	4.56	35 00
2-6-3,	1	3	1.80	6.89	3.20	30 00
2-6 1/2-4 1/2,	1	2	1.94	7.17	4.79	32 50
2-7-3,	2	2	1.38	8.39	3.98	28 50
2-7-5,	1	1	1.64	6.76	5.42	30 00
2-7-6,	1	1	1.19	7.53	4.85	34 00
2-7-10,	2	3	1.71	7.60	10.85	31 00
2-8-2,	40	74	1.79	8.46	2.40	29 37
2-8-3,	19	33	1.77	8.31	3.43	31 26
2-8-4,	19	30	1.79	8.35	4.31	33 02
2-8-5,	22	54	1.76	8.48	5.19	30 96
2-8-6,	3	5	1.86	8.24	6.31	33 67
2-8-7,	1	2	1.80	8.33	7.96	32 00
2-8-10,	33	67	1.79	8.41	10.32	35 78
2-9-3,	2	5	1.76	9.19	3.00	34 50
2-9-5,	1	2	1.75	9.09	5.76	35 50
2-9-6,	1	3	2.00	9.34	6.44	34 25
2-10-1,	1	2	1.84	10.28	1.33	31 00
2-10-2,	7	9	1.82	10.37	2.81	31 18
2-10-4,	6	11	1.77	10.18	4.47	30 49
2-10-6,	3	4	1.89	10.38	6.29	35 06
2-12-2,	11	26	1.83	12.02	2.44	32 01
2-12-8,	1	3	1.50	12.56	8.57	40 92
2-16-2,	1	2	1.88	16.42	2.30	36 75
3-7-3,	1	1	2.30	7.31	3.08	36 50
3-7-10,	1	1	2.13	7.19	11.16	40 00
3-8-3,	6	8	2.58	8.51	3.36	31 57
3-8-4,	6	9	2.47	8.42	4.45	26 34
3-8-5,	1	1	2.64	7.86	5.42	37 75
3-8-10,	1	1	2.22	8.36	10.57	40 00
3-9-2,	2	2	2.52	9.22	2.32	36 25
3-8-5,	1	1	2.08	9.40	5.91	35 00
3-10-4,	1	2	2.52	10.37	4.08	34 75
3 1/2-5 1/4-4,	1	1	2.22	6.68	4.05	36 50
4-3 1/2-5,	1	1	3.40	5.04	5.38	38 00
4-6-2,	1	1	3.39	6.81	2.54	45 00
4-8-3,	4	4	3.22	8.77	3.52	37 18

TABLE III.—CONTINUED.

Formula.	Number of brands.	Number of samples.	Nitrogen.	Phosphoric Acid.	Potash.	Price.
4-8-4, -----	9	21	3.23	8.37	4.34	\$38 63
4-8-5, -----	4	5	3.39	8.96	5.56	42 13
4-8-6, -----	14	25	3.13	8.58	6.26	39 09
4-8-7, -----	4	7	3.31	8.52	7.52	38 50
4-8-10, -----	1	1	3.14	7.57	10.78	44 00
4-10-4, -----	1	1	2.85	10.08	4.30	41 00
5-4-5, -----	1	1	4.42	4.92	4.48	43 00
5-6-5, -----	1	1	3.93	6.15	4.90	-----
5-7-5, -----	1	1	3.70	8.57	6.04	41 00
5-8-5, -----	3	3	3.88	8.49	5.62	38 50
5-8-6, -----	1	1	3.67	9.40	6.48	-----
5-8-7, -----	1	3	4.11	8.64	8.05	44 32
7-6-5, -----	2	4	5.55	5.80	5.28	42 00
8-4-2, -----	1	2	6.32	4.80	2.32	60 00
10-5-2, -----	1	1	7.04	6.21	2.69	56 00
83 Totals, -----	451	793	1.67	8.67	4.18	\$30 99

## KEY TO TABLES.

The following tables include the detailed results of chemical analyses of each sample. All samples were given a chemist's number as shown in the extreme left and right hand columns and are grouped in alphabetical order of manufacturers and brand names. Each class is shown in separate tables and the following information will serve as a key to these tables:

The asterisk (\*) indicates the cases where total nitrogen, available phosphoric acid and total potash are deficient to the extent of .2 per cent. or more below their respective guarantees. In cases where the guarantees are .5 per cent. or less the deficiencies noted are where the amount is .1 per cent. or more below the guarantees.

Order of results of analysis: Moisture, Total Nitrogen found and guaranteed, Total Phosphoric Acid found and guaranteed; Available Phosphoric Acid found and guaranteed; Insoluble Phosphoric Acid found and guaranteed; Total Potash found and guaranteed and Potash as Muriate and as Sulphate.

To determine the formula of any brand, as guaranteed, multiply Total Nitrogen guaranteed by 1.2158 to obtain Ammonia and then use this figure and the guarantees for Available Phosphoric Acid and

Total Potash. For Example, Nitrogen guarantee equals. 82% ( $.82 \times 1.2158 = 1\%$ ). Ammonia equals 1% Available Phosphoric Acid 8% Potash 1%. Formula therefore is 1-8-1.

Complete Fertilizers, Table IV, furnishing Nitrogen, Phosphoric Acid and Potash.

Nitrogen and Phosphoric Acid Fertilizers, Table V, including Dissolved Bones and other like products.

Ground Bone Fertilizers, Table VI, furnishing Nitrogen, and Phosphoric Acid.

Acidulated Phosphate Fertilizers, Table VII, furnishing Phosphoric Acid.

Rock and Potash Fertilizers, Table VIII, furnishing Phosphoric Acid and Potash.

Miscellaneous Fertilizers, Table IX, including Nitrate of Soda, Sulphate of Ammonia, Dried Blood, Dried Fish, Tankage, Kainit, Muriate of Potash, Sulphate of Potash, Humo-Phos, Marle Humas and Special Mixtures.



TABLE IV.—COMPLETE  
Furnishing Nitrogen.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	ACME BONE FERTILIZER COMPANY, LANCASTER, PA.	
3700	Potato and Vegetable, -----	S. B. Sheetz, East Petersburg, -----
3702	Special Tobacco Con.pound, -----	S. B. Sheetz, East Petersburg, -----
3701	Truckers Delight, -----	S. B. Sheetz, East Petersburg, -----
	THE ALLENTOWN MANUFACTURING CO., ALLENTOWN, PA.	
3693	Complete Phosphate, -----	Albright & Schwoyer, Kempton, -----
3692	Potato Phosphate, -----	Albright & Schwoyer, Kempton, -----
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
3453	Bowker's All Round Fertilizer, -----	Darius Cassel, Lebanon, -----
3606	Bowker's All Round Fertilizer, -----	Alvin Fritz, Mahanoy City, -----
3444	Bowker's Corn and Grain Grower, -----	John M. Stoltzius, Elverson, -----
3454	Bowker's Corn and Wheat Guano, -----	Darius Cassel, Lebanon, -----
2424	Bowker's Corn and Wheat Guano, -----	Willis Koch, Pottsgrove, -----
2423	Bowker's Potash Fertilizer, -----	Willis Koch, Pottsgrove, -----
2550	Bowker's Potato Special, -----	H. E. Mason, Osterburg, -----
3607	Bowker's Special Brand Farm and Garden Phosphate, -----	Alvin Fritz, Mahanoy City, -----
3455	Bowker's Sure Crop Phosphate, -----	Darius Cassel, Lebanon, -----
3291	Bowker's Sure Crop Phosphate, -----	H. L. Stultz & Brother, Altoona, -----
3653	Bradley's B. D. Guano, -----	W. A. Porter, Cambridge Springs, -----
3516	Bradley's B. D. Guano, -----	Shiner & Craumer, Monroeton, -----
3514	Bradley's New Method Fertilizer, -----	Asa Wilcox, Seely Creek, -----
2966	Bradley's Niagara Phosphate, -----	R. C. Wilson, Dayton, -----
3525	Bradley's Unicorn, -----	J. H. Campbell, Burlington, -----
3632	Bradley's Weymouth Staple Phosphate, -----	Stanley R. White, Clarke Summit, -----
2967	Canton Chemical Bakers Fish Guano, -----	Wm. Gates Estate, Kittanning, -----
3272	Canton Chemical Bakers Fish Guano, -----	A. F. Stutzman & Son, Johnstown, -----
2401	Canton Chemical Bakers Special Wheat, Corn and Grass Mixture, -----	H. F. Gump & Son, Everett, -----
3289	Canton Chemical Bakers Special Wheat, Corn and Grass Mixture, -----	Stultz Brothers, Hollidaysburg, -----
3420	Canton Chemical Bakers Special Wheat, Corn and Grass Mixture, -----	W. B. Winey & Son, Middleburg, -----
2559	Canton Chemical Eagle Phosphate, -----	Lloyd Diehl, Lutzville, -----
2968	Canton Chemical Harrow Brand Crop Grower, -----	Wm. Gates Estate, Kittanning, -----
2573	Canton Chemical Harrow Brand Crop Grower, -----	The Kase Store, Riverside, -----
3602	Canton Chemical Potato Manure, -----	Frank Gehart, Orwigsburg, -----
2899	Canton Chemical Potato and Vegetable Manure, -----	H. A. Fishburn, Penbrook, -----
2402	Canton Chemical Potato and Vegetable Manure, -----	H. F. Gump & Son, Everett, -----
3273	Canton Chemical Potato and Vegetable Manure, -----	A. F. Stutzman & Son, Johnstown, -----
3131	Canton Chemical Resurgam Guano, -----	Jacob Beshore, Cly, -----
3085	Complete Compound, -----	H. P. Passmore & Brother, Oxford, -----
3610	Complete Compound, -----	Harry Ryland, Cressona, -----
3257	Complete Manure with 6% Potash, -----	W. D. Gates, Curwensville, -----
3080	Complete Manure with 6% Potash, -----	H. P. Passmore & Brother, Oxford, -----
3033	Complete Manure with 6% Potash, -----	Stanley R. White, Clarke Summit, -----
2925	Josiah Cope's Potato Corn and Tobacco Fertilizer, -----	D. H. Meyers & Son, Annville, -----
3731	Josiah Cope's Spring and Fall Mixture, -----	B. F. Sneeht, Stoystown, -----
2938	Josiah Cope's Wheat and Grass Special, -----	W. B. Barnitz, Carlisle, -----
2775	Crescent Complete Manure, -----	Grant E. Alleman, Shoemakersville, -----
3342	Crocker's Complete Manure, -----	M. H. Kelly, Smethport, -----
2684	Crocker's Complete Manure, -----	Anna M. Lawrence, West Chester, -----
3343	Crocker's General Crop Fertilizer, -----	M. H. Kelly, Smethport, -----
2685	Crocker's General Crop Fertilizer, -----	Anna M. Lawrence, West Chester, -----

## FERTILIZERS.

Phosphoric Acid and Potash.

Moisture.	GEN.		PHOSPHORIC ACID						POTASH				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Present as Muriate.	Present as Sulphate.				
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.77	1.21	-----	8.15	8.15	7.43	7.10	0.72	-----	1.70	1.70	1.70	-----	27 00	3700
5.70	1.61	-----	9.34	9.12	8.80	8.10	0.54	-----	4.37	4.37	4.37	-----	35 00	702
3.36	1.10	-----	9.69	10.13	8.59	9.12	1.10	-----	3.45	3.45	3.45	-----	-----	3701
6.70	1.56	1.05	11.12	10.00	8.70	5.00	2.32	5.10	4.56	4.00	4.56	-----	35 00	3693
8.15	1.90	1.05	9.45	8.00	8.52	4.00	0.96	4.00	10.99	10.00	10.00	-----	37 00	3692
8.70	2.63	2.47	8.90	9.00	7.98	8.00	0.92	1.00	4.68	4.00	4.68	-----	36 50	3453
6.40	2.55	2.47	9.35	9.00	8.19	8.00	1.16	1.00	4.44	4.00	4.44	-----	36 00	3444
8.72	0.87	0.82	9.77	9.00	8.80	8.00	0.94	1.00	4.20	4.00	4.20	-----	32 75	3454
6.70	1.86	1.65	8.54	9.00	8.00	8.00	0.62	1.00	4.16	4.00	4.16	-----	29 75	3421
7.32	1.61	1.65	9.16	9.00	8.54	8.00	0.62	1.00	5.69	4.00	5.69	-----	25 75	2423
3.95	1.16	0.82	10.00	10.00	8.11	8.00	1.06	1.00	3.33	3.00	3.33	-----	22 70	3530
8.05	3.31	3.29	9.17	9.00	8.11	8.00	1.06	1.00	4.05	3.00	4.05	-----	30 00	3607
8.10	1.56	1.65	9.36	9.00	8.52	8.00	0.84	1.00	2.31	2.00	2.31	-----	-----	-----
10.25	1.00	0.82	8.93	9.00	8.97	8.00	0.66	1.00	2.43	2.00	2.43	-----	27 00	3455
5.75	1.08	0.82	10.10	9.00	8.88	8.00	1.22	1.00	2.19	2.00	2.19	-----	25 00	3701
2.60	0.90	0.82	9.69	9.00	8.70	8.00	0.66	1.00	4.14	4.00	4.14	-----	20 00	2653
3.20	0.99	0.82	9.98	9.00	8.81	8.00	0.51	1.00	4.47	4.00	4.47	-----	27 00	2516
5.50	0.91	0.82	9.81	9.00	8.85	8.00	0.66	1.00	2.31	2.00	2.31	-----	-----	2514
3.95	1.11	0.82	8.48	8.00	6.96	7.00	1.50	1.00	1.47	1.00	1.47	-----	27 25	2906
3.65	1.60	1.65	8.90	9.00	8.37	8.00	0.50	1.00	2.06	2.00	2.06	-----	25 25	2525
3.63	2.04	1.65	9.16	9.00	8.69	8.00	0.54	1.00	10.74	10.00	10.74	-----	27 50	2052
3.05	1.84	1.65	9.83	9.00	8.25	8.00	1.48	1.00	2.21	2.00	2.21	-----	24 00	2967
5.93	2.05	1.65	9.52	9.00	8.11	8.00	1.40	1.00	2.27	2.00	2.27	-----	28 00	2972
11.52	1.01	0.82	10.65	10.00	9.77	9.00	0.88	1.00	2.07	2.00	2.07	-----	24 50	2401
6.41	1.05	0.82	10.61	10.00	7.73	9.00	0.88	1.00	2.35	2.00	2.35	-----	27 00	3289
10.75	0.74	0.82	10.20	10.00	9.44	9.00	0.76	1.00	2.10	2.00	2.10	-----	25 00	3400
3.90	1.19	0.82	8.58	8.00	7.90	7.00	1.98	1.00	1.24	1.00	1.24	-----	-----	2579
4.10	0.93	0.82	9.17	9.00	7.77	8.00	1.40	1.00	1.36	1.00	1.36	-----	32 00	2908
10.29	1.04	0.82	9.29	9.00	8.17	8.00	1.12	1.00	1.16	1.00	1.16	-----	23 00	2573
6.60	1.88	1.65	9.26	9.00	8.04	8.00	1.32	1.00	4.52	4.00	4.52	-----	28 00	2602
9.05	0.94	0.82	10.23	10.00	9.37	9.00	0.86	1.00	3.59	3.00	3.50	-----	27 50	2890
10.70	0.96	0.82	10.26	10.00	9.34	9.00	0.92	1.00	2.95	3.00	2.95	-----	30 00	2402
5.25	0.85	0.82	10.52	10.00	9.58	9.00	0.94	1.00	3.33	3.00	3.33	-----	27 00	3273
6.24	1.04	0.82	9.49	9.00	7.83	8.00	1.66	1.00	4.94	4.00	4.94	-----	28 00	3101
8.48	1.07	0.82	9.27	9.00	8.05	8.00	1.22	1.00	3.85	4.00	3.85	-----	27 00	2635
7.75	0.85	0.82	9.80	9.00	8.44	8.00	1.36	1.00	4.24	4.00	4.24	-----	-----	2610
3.89	*2.26	3.29	10.78	9.00	9.48	8.00	1.30	1.00	*2.67	6.00	2.67	-----	40 00	3057
10.50	*2.08	3.20	9.27	9.00	8.00	8.00	1.20	1.00	6.31	6.00	6.31	-----	38.00	3000
6.45	3.10	3.20	9.63	9.00	9.05	8.00	0.58	1.00	*5.80	6.00	5.80	-----	41 50	3033
9.15	1.80	1.65	9.41	9.00	8.07	8.00	1.34	1.00	3.85	4.00	3.85	-----	-----	2925
5.00	0.92	0.82	9.67	9.00	8.65	8.00	1.02	1.00	2.29	2.00	2.29	-----	26 00	3731
7.43	0.80	0.82	9.62	9.00	8.20	8.00	1.22	1.00	1.34	1.00	1.34	-----	22 50	2933
3.05	1.72	1.65	9.61	9.00	8.21	8.00	1.30	1.00	3.47	3.00	3.47	-----	27 75	2775
5.64	0.93	0.82	9.90	9.00	8.14	8.00	1.76	1.00	4.15	4.00	4.15	-----	24 00	2342
6.95	1.03	0.82	9.69	9.00	8.55	8.00	1.14	1.00	4.48	4.00	4.48	-----	25 00	2634
2.15	1.05	0.82	8.81	8.00	7.65	7.00	1.16	1.00	2.06	1.00	2.06	-----	30 50	2313
5.50	1.09	0.82	8.47	8.00	7.25	7.00	1.22	1.00	1.09	1.00	1.09	-----	-----	2685

\*Deficient.

287711



TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
3503	Crocker's Harvest Jewel Fertilizer, -----	Farmers Supply Co., Milan, -----
2284	Crocker's High Grade Special, -----	Gibson-Clark Co., Indiana, -----
2281	Crocker's Special Cabbage and Potato Manure, -----	Gibson-Clark Co., Indiana, -----
3154	Crocker's Special Cabbage and Potato Manure, -----	John McCandless, Norristown, -----
3006	Crocker's Universal Grain Grower, -----	W. R. Erb, New Berlinville, -----
3350	Crocker's Universal Grain Grower, -----	Everts Hardware Co., Warren, -----
2000	Dead Shot Phosphate, -----	H. A. Fishburn, Penbrook, -----
2840	Detrick's Corn and Oats Fertilizer, -----	H. F. Gelbaugh, Evans City, -----
3760	Detrick's Imperial Compound, -----	Jeff Altfather, Berlin, -----
3762	Detrick's Imperial Compound, -----	Czar Beerbower, Somerfield, -----
3153	Detrick's Imperial Compound, -----	John McCandless, Norristown, -----
3340	Detrick's KKK Kangaroo Komplete Kom-pound, -----	Emaus Coal & Lumber Co., Emaus, -----
3708	Detrick's KKK Kangaroo Komplete Kom-pound, -----	John Greenleaf, Quarryville, -----
3097	Detrick's KKK Kangaroo Komplete Kom-pound, -----	John McCandless, Norristown, -----
3758	Detrick's Paragon Ammoniated Phosphate and Potash, -----	Jeff Altfather, Berlin, -----
3339	Detrick's Paragon Ammoniated Phosphate and Potash, -----	Emaus Coal & Lumber Co., Emaus, -----
3761	Detrick's Special Ammoniated Compound, -----	Czar Beerbower, Somerfield, -----
3096	Detrick's Standard Potash Fertilizer, -----	John McCandless, Norristown, -----
3370	General Truck Fertilizer, -----	Earl Eagley, W. Springfield, -----
2256	Grass Top Dresser, -----	Samuel Buffington, Sacramento, -----
3001	Great Eastern General, -----	D. F. Clemmer, Barto, -----
2222	Great Eastern General, -----	Torrence DeLong, Loganton, -----
3507	Great Eastern General, -----	Ira Hottenstein, Overton, -----
3426	High Grade Crop Producer, -----	S. H. Lohr, Clarence, -----
3519	High Grade Crop Producer, -----	J. J. Weller & Co., Sayre, -----
2319	High Grade Potash Compound, -----	Torrence DeLong, Loganton, -----
2283	High Grade Potash Compound, -----	Gibson-Clark Co., Indiana, -----
3081	High Grade Potash Compound, -----	H. P. Passmore & Brother, Oxford, -----
3299	High Grade Potash Compound, -----	R. D. Sames, Coopersburg, -----
3103	Lister's A. B. C. Fertilizer, -----	Freys Hardware, Muncy, -----
3264	Lister's Big Crop Grower, -----	Ebensburg Milling & Supply Co., Ebensburg, -----
3410	Lister's Big Crop Grower, -----	Ed. Houser, State College, -----
3331	Lister's Big Crop Grower, -----	Horace T. Myers, Buckingham, -----
2337	Lister's Corn and Potato Fertilizer, -----	R. Foster & Sons, Millinburg, -----
2314	Lister's Corn and Potato Fertilizer, -----	Knecht Milling Co., Mill Hall, -----
2376	Lister's Corn and Potato Fertilizer, -----	Morrow & Buxton, Valencia, -----
3300	Lister's Corn and Potato Fertilizer, -----	R. D. Sames, Coopersburg, -----
2312	Lister's G. Brand, -----	Knecht Milling Co., Mill Hall, -----
3298	Lister's G. Brand, -----	R. D. Sames, Coopersburg, -----
2331	Lister's G. Brand, -----	Cleve Ungart, Spring Mills, -----
3266	Lister's Golden Sheaf, -----	Ebensburg Milling & Supply Co., Ebensburg, -----
2336	Lister's Golden Sheaf, -----	R. Foster & Sons, Millinburg, -----
2477	Lister's Golden Sheaf, -----	B. Savidge, Turbotville, -----
2030	Lister's Golden Sheaf, -----	Shippensburg Warehouse Co., Shippensburg, -----
3268	Lister's Oneida Special, -----	F. P. Harrison, Edinboro, -----
3043	Lister's Perfect Potato Manure, -----	W. E. Ervin, Somerton, -----
2787	Lister's 10% Potash Fertilizer, -----	J. M. Groh, Liekdale, -----
3090	Lister's 10% Potash Fertilizer, -----	W. M. Russell, Northbrook, -----
2586	Lister's 10% Potash Fertilizer, -----	A. F. Wentz, Jersey Shore, -----
2581	Lister's Special Crop Producer, -----	A. F. Wentz, Jersey Shore, -----
2835	Lister's Squirrel Brand Fertilizer, -----	Morrow & Buxton, Valencia, -----
3232	Lister's Squirrel Brand Fertilizer, -----	Horace T. Myers, Buckingham, -----
2246	Lister's Squirrel Brand Fertilizer, -----	Simpson Brothers, Norristown, -----
2248	Lister's Standard Pure Super Phosphate of Lime, -----	Simpson Brothers, Norristown, -----

## FERTILIZERS—Continued.

NITRO-GEN.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Moisture.	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	£	
2.27	1.81	1.65	9.50	9.00	8.54	8.00	0.96	1.00	2.49	2.00	2.49	-----	33 00	3503
8.37	1.89	1.65	9.18	9.00	8.42	8.00	0.76	1.00	4.10	4.00	4.10	-----	34 75	2234
6.42	2.16	2.47	9.04	9.00	8.10	8.00	0.94	1.00	4.56	4.00	4.56	-----	38 50	2281
10.37	2.30	2.47	9.71	9.00	7.94	8.00	1.77	1.00	4.81	4.00	4.81	-----	39 00	3154
8.52	1.00	0.82	9.22	9.00	8.12	8.00	1.10	1.00	2.74	2.00	2.74	-----	-----	3005
3.81	1.03	0.82	9.16	9.00	8.22	8.00	0.94	1.00	3.88	2.00	3.88	-----	40 00	3359
8.25	0.87	0.82	8.83	8.00	7.77	7.00	1.06	1.00	1.29	1.00	1.29	-----	23 50	2960
3.05	0.89	0.82	10.70	10.00	9.02	9.00	1.68	1.00	2.54	2.00	2.54	-----	28 00	2840
3.05	0.97	0.82	9.07	9.00	8.43	8.00	0.64	1.00	2.77	2.00	2.77	-----	22 50	3700
3.87	0.95	0.82	9.72	9.00	8.36	8.00	1.36	1.00	2.33	2.00	2.33	-----	23 25	3762
10.06	1.09	0.82	8.75	9.00	*7.54	8.00	1.21	1.00	3.30	2.00	3.30	-----	29 00	3133
2.79	2.02	1.65	9.49	9.00	8.99	8.00	0.50	1.00	3.33	3.00	3.33	-----	34 00	3349
7.58	1.57	1.65	9.16	9.00	8.40	8.00	0.76	1.00	3.12	3.00	3.12	-----	28 25	3708
5.93	1.70	1.65	9.43	9.00	8.31	8.00	1.12	1.00	2.89	3.00	2.89	-----	-----	3097
2.96	0.93	0.82	8.83	8.00	7.81	7.00	1.02	1.00	1.58	1.00	1.58	-----	21 00	3758
2.50	0.92	0.82	8.58	8.00	7.88	7.00	0.70	1.00	1.43	1.00	1.43	-----	26 00	3339
2.80	0.87	0.82	9.62	9.00	8.50	8.00	1.12	1.00	1.36	1.00	1.36	-----	27 25	3761
7.55	1.07	0.82	11.20	10.00	9.46	9.00	1.74	1.00	2.89	3.00	2.89	-----	-----	3096
4.34	2.68	2.47	9.49	9.00	8.45	8.00	1.04	1.00	4.35	4.00	4.35	-----	36 25	3370
8.10	*7.04	8.23	6.77	6.00	6.21	5.00	0.56	1.00	2.69	2.00	2.69	-----	56 00	2356
6.64	0.97	0.82	9.48	9.00	8.22	8.00	1.26	1.00	4.91	4.00	4.91	-----	26 00	3001
10.85	1.12	0.82	9.64	9.00	8.44	8.00	1.20	1.00	4.09	4.00	4.09	-----	27 00	2322
2.77	1.12	0.82	9.67	9.00	8.71	8.00	0.96	1.00	4.49	4.00	4.49	-----	-----	3507
5.05	1.71	1.65	9.58	9.00	8.26	8.00	1.32	1.00	4.13	4.00	4.13	-----	33 00	3426
5.00	1.72	1.65	9.62	9.00	8.92	8.00	0.70	1.00	4.00	4.00	4.00	-----	-----	3519
9.59	2.12	1.65	9.44	9.00	8.02	8.00	1.42	1.00	9.88	10.00	9.88	-----	35 69	2319
7.37	1.78	1.65	9.30	9.00	8.26	8.00	1.04	1.00	9.17	10.00	9.17	-----	40 25	2283
7.81	1.70	1.65	9.80	9.00	8.14	8.00	1.66	1.00	10.07	10.00	10.07	-----	33 00	3081
6.17	2.10	1.65	9.16	9.00	8.64	8.00	0.52	1.00	10.58	10.00	10.58	-----	40 00	3299
10.24	1.50	1.65	12.69	13.00	*11.73	12.00	0.96	1.00	2.35	2.00	2.35	-----	29 00	3103
4.45	1.75	1.65	9.16	9.00	8.08	8.00	1.08	1.00	4.36	4.00	4.36	-----	30 00	3264
5.10	1.74	1.65	8.76	9.00	7.86	8.00	0.90	1.00	4.32	4.00	4.32	-----	29 00	3410
4.15	1.71	1.65	9.46	9.00	8.70	8.00	0.76	1.00	4.20	4.00	4.20	0.80	33 00	3331
9.15	1.71	1.65	8.92	9.00	*7.64	8.00	1.28	1.00	3.25	3.00	3.25	-----	29 25	2337
10.28	1.47	1.65	9.31	9.00	8.09	8.00	1.22	1.00	*2.60	3.00	2.60	-----	50 00	2314
2.92	1.92	1.65	9.35	9.00	7.91	8.00	1.44	1.00	3.28	3.00	3.28	-----	34 00	2836
3.05	1.91	1.65	9.36	9.00	8.26	8.00	1.10	1.00	3.24	3.00	3.24	-----	33 00	3300
10.96	1.06	0.82	9.41	9.00	8.51	8.00	1.10	1.00	3.87	4.00	3.87	-----	27 75	2312
1.90	1.06	0.82	9.64	9.00	8.02	8.00	1.62	1.00	4.00	4.00	4.00	-----	30 00	3298
10.02	0.95	0.82	9.13	9.00	8.39	8.00	0.74	1.00	4.28	4.00	4.28	-----	27 90	2331
3.89	0.89	0.82	9.69	9.00	8.25	8.00	1.44	1.00	1.37	1.00	1.37	-----	23 00	3266
10.22	0.98	0.82	9.44	9.00	8.36	8.00	1.08	1.00	1.17	1.00	1.17	-----	24 00	2336
6.57	1.12	0.82	9.49	9.00	8.19	8.00	1.30	1.00	1.18	1.00	1.18	-----	23 00	2477
8.75	1.12	0.82	9.77	9.00	8.65	8.00	1.12	1.00	1.58	1.00	1.58	-----	21 50	2436
4.42	1.15	0.82	9.32	9.00	8.02	8.00	1.30	1.00	1.27	1.00	1.27	-----	27 00	3368
4.60	3.39	3.29	9.36	9.00	8.20	8.00	1.16	1.00	4.26	4.00	4.26	-----	37 00	3043
4.85	1.57	1.65	10.13	9.00	8.31	8.00	1.82	1.00	10.30	10.00	10.30	-----	40 00	2787
7.01	1.63	1.65	8.89	9.00	7.84	8.00	1.05	1.00	10.32	10.00	10.32	-----	34 00	3090
6.43	2.45	1.65	9.39	9.00	8.05	8.00	1.34	1.00	*9.02	10.00	9.02	-----	38 00	*5 6
5.25	1.21	0.82	8.44	8.00	7.23	7.00	1.16	1.00	1.24	1.00	1.24	-----	25 00	2581
3.30	0.97	0.82	9.46	9.00	8.32	8.00	1.14	1.00	2.55	2.00	2.55	-----	29 00	2535
3.09	0.98	0.82	8.97	9.00	8.23	8.00	0.74	1.00	3.13	2.00	3.13	-----	27 50	3332
7.76	1.20	0.82	8.84	9.00	8.14	8.00	0.70	1.00	2.07	2.00	2.07	-----	29 00	2246
7.92	2.59	2.47	10.32	10.00	9.16	9.00	1.16	1.00	2.14	2.00	2.14	-----	37 50	2248

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
3102	Lister's Success Fertilizer, -----	Frey's Hardware, Muncy, -----
2837	Lister's Success Fertilizer, -----	Morrow & Buxton, Valencia, -----
2247	Lister's Success Fertilizer, -----	Simpson Brothers, Norristown, -----
2808	Ludlam's Ccerops Harvest Queen, -----	Curtis E. Bushey, York Springs, -----
3754	Ludlam's Ccerops Harvest Queen, -----	N. B. Shober, Garret, -----
2551	Ludlam's Ccerops No. 2 For Grain and Grass, -----	D. B. Griffith, Wolsburg, -----
3753	Ludlam's Ccerops No. 2 For Grain and Grass, -----	N. B. Shober, Garret, -----
3743	Ludlam's Ccerops No. 2 For Grain and Grass, -----	West Salisbury Feed Co., West Salisbury, -----
2932	Matchless Potash Manure, -----	W. B. Barnitz, Carlisle, -----
3091	Matchless Potash Manure, -----	Edw. W. Brinton & Son, West Chester, -----
3255	Matchless Potash Manure, -----	W. D. Gates, Curwensville, -----
3371	Milsom's Buffalo Guano, -----	Earl Eagley, W. Springfield, -----
3326	Moro Phillips Potato and Truck Manure, -----	S. T. Hillpot, Quakertown, -----
3557	Moro Phillips Pure Phuine, -----	Nathan Hunsicker, Snyders, -----
3334	Nassau General Favorite, -----	Ira Bergstresser, Ottsville, -----
3489	Nassau General Favorite, -----	A. A. Chamberlain, Thornhurst, -----
3490	Nassau Potato Manure, -----	A. A. Chamberlain, Thornhurst, -----
2567	Nassau Potato Manure, -----	J. E. Jackson, Everett, -----
2286	North Western Horse Shoe Challenge Fertilizer Revised, -----	Gibson-Clark Co., Indiana, -----
3381	North Western Success Phosphate, -----	F. R. Jennings, Tidioute, -----
2317	Packer's Union Universal Fertilizer 1920, -----	G. F. Aron, Jersey Shore, -----
3529	Patapseo Coon Brand Guano, -----	Canton Mercantile Co., Canton, -----
3130	Peerless Vegetable and Grain Grower, -----	Jacob Beshore, Cly, -----
2940	Peerless Vegetable and Grain Grower, -----	Wm. Nickels & Son, Shippensburg, -----
3053	Peerless Vegetable and Grain Grower, -----	H. P. Passmore & Brother, Oxford, -----
3246	Pollock's Bulls Eye Guano, -----	Morrisons Cove Cooperative Agricultural Association, Curryville, -----
2461	Pollock's Bulls Eye Guano, -----	H. A. Snyder, Strawberry Ridge, -----
3432	Pollock's Corn and Oats Special, -----	J. O. Reed, Philipsburg, -----
2945	Pollock's Corn, Wheat and Tomato Guano, -----	J. D. Garman, Orrstown, -----
2523	Pollock's Corn Wheat and Tomato Guano, -----	John Shirey, Lewistown, -----
2807	Pollock's Crop Invigorator, -----	Geo. A. Dick, Dillsburg, -----
2944	Pollock's Crop Invigorator, -----	J. D. Garman, Orrstown, -----
3433	Pollock's Crop Invigorator, -----	J. O. Reed, Philipsburg, -----
3774	Pollock's Special Wheat and Corn Fertilizer, -----	Lloyd Bender, Listonburg, -----
2776	Read's High Grade Farmers Friend, -----	Grant E. Alleman, Shoemakersville, -----
2318	Red Dragon Guano, -----	G. E. Aron, Jersey Shore, -----
3245	Red Dragon Guano, -----	Morrisons Cove Cooperative Agricultural Association, Curryville, -----
3031	Red Dragon Guano, -----	Stanley R. White, Clarke Summit, -----
2415	Reese's Challenge Crop Grower, -----	G. B. Sterner, Dewart, -----
2802	Reese's Half and Half, -----	Elmer Crone, Wellsville, -----
3697	Reese's Half and Half, -----	S. H. Wolf, Stevens, -----
2803	Reese's Pilgrim Fertilizer, -----	Elmer Crone, Wellsville, -----
2293	Reese's Potato Manure, -----	J. A. McKelvey, Blairsville, -----
3092	Royal Potash Mixture, -----	Edw. W. Brinton & Son, West Chester, -----
2779	Royal Potash Mixture, -----	Wm. S. Schaffer, Leesport, -----
3170	Sharpless & Carpenter's Fish Guano Special, -----	S. Carl Garner, Hathboro, -----
2785	Sharpless & Carpenter's No. 1 Brand Phosphate, -----	M. B. Althouse, Leesport, -----
2564	Southern Special Potato Grower, -----	J. E. Jackson, Everett, -----
2782	Superior Potash Mixture, -----	Samuel W. Reeser, Leesport, -----
3517	Superior Potash Mixture, -----	Shiner & Crauner, Monroeton, -----
2245	Superior Potash Mixture, -----	Simpson Brothers, Norristown, -----
3088	Susquehanna Ammoniated Phosphate, -----	H. P. Passmore & Brother, Oxford, -----
3087	Susquehanna Crop Grower, -----	H. P. Passmore & Brother, Oxford, -----
2926	Susquehanna Potato and Tobacco Phosphate, -----	D. H. Meyers & Son, Annville, -----
2701	Susquehanna Potato and Tobacco Phosphate, -----	James E. Robinson, Honeybrook, -----



## FERTILIZERS—Continued.

NITRO-GEN.					PHOSPHORIC ACID.					POTASH.					Selling price per ton at place of selection.		Chemist's number.
		Total.		Available.		Insoluble.											
Moisture.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.					
%	%	%	%	%	%	%	%	%	%	%	%	%	%	\$			
9.17	1.62	1.65	9.44	9.00	8.38	8.00	1.06	1.00	2.12	2.00	2.12	-----	-----	26 00	3102		
3.75	2.01	1.65	9.81	9.00	8.85	8.00	0.96	1.00	3.16	2.00	3.16	-----	-----	32 50	2837		
7.77	1.97	1.64	8.67	9.00	8.03	8.00	0.64	1.00	2.04	2.00	0.80	1.24	-----	33 00	2247		
0.27	0.94	0.82	9.06	9.00	8.30	8.00	0.76	1.00	2.13	2.00	2.13	-----	-----	-----	2808		
3.80	0.88	0.82	9.72	9.00	8.92	8.00	0.80	1.00	2.40	2.00	2.40	-----	-----	22 25	3754		
4.47	1.21	0.82	8.61	8.00	7.37	7.00	1.24	1.00	1.21	1.00	1.21	-----	-----	20 50	2551		
2.68	0.95	0.82	8.62	8.00	7.50	7.00	1.12	1.00	1.31	1.00	1.31	-----	-----	20 50	3753		
3.72	0.96	0.82	9.25	8.00	8.55	7.00	0.70	1.00	1.28	1.00	1.28	-----	-----	24.00	3743		
5.72	1.64	1.65	9.83	9.00	8.95	8.00	0.88	1.00	2.19	2.00	2.19	-----	-----	27 00	2932		
7.85	1.47	1.65	9.69	9.00	8.51	8.00	1.18	1.00	2.20	2.00	2.20	-----	-----	30 00	3091		
4.60	1.87	1.65	9.58	9.00	8.28	8.00	1.30	1.00	2.36	2.00	2.36	-----	-----	32 50	2255		
6.75	1.12	0.82	8.88	9.00	7.96	8.00	0.92	1.00	4.46	4.00	4.46	-----	-----	30 25	3371		
5.25	2.45	2.47	9.83	10.00	9.27	9.00	0.56	1.00	2.49	2.00	2.49	-----	-----	35 00	3326		
3.75	1.68	1.65	9.31	9.00	8.03	8.00	1.28	1.00	3.59	3.00	3.59	-----	-----	-----	3557		
4.90	1.08	0.82	9.55	9.00	9.05	8.00	0.50	1.00	4.27	4.00	4.27	-----	-----	31 50	3334		
3.11	1.05	0.82	8.94	9.00	8.38	8.00	0.56	1.00	4.47	4.00	4.47	-----	-----	32 00	3489		
8.05	1.94	1.65	9.01	9.00	8.35	8.00	0.66	1.00	4.19	4.00	4.19	-----	-----	37 00	2490		
3.75	1.90	1.65	9.16	9.00	8.26	8.00	0.90	1.00	4.33	4.00	4.33	-----	-----	29 75	2567		
9.46	1.06	0.82	11.91	11.00	10.17	10.00	1.74	1.00	1.12	1.00	1.12	-----	-----	29 50	2286		
5.00	0.91	0.82	8.50	8.00	7.10	7.00	1.40	1.00	1.31	1.00	1.31	-----	-----	32 50	3381		
10.41	0.97	0.82	9.32	9.00	8.00	8.00	1.32	1.00	1.11	1.00	1.11	-----	-----	28 00	2317		
2.75	0.93	0.82	10.52	10.00	9.42	9.00	1.10	1.00	2.64	2.00	2.64	-----	-----	29 75	3529		
5.71	1.83	1.65	9.18	9.00	8.04	8.00	1.14	1.00	5.19	5.00	5.19	-----	-----	36 00	3120		
9.25	2.04	1.65	9.21	9.00	*7.77	8.00	1.44	1.00	4.93	5.00	4.93	-----	-----	31 00	2910		
7.78	1.80	1.65	9.21	9.00	8.31	8.00	0.90	1.00	5.71	5.00	5.71	-----	-----	30 00	3083		
9.88	1.99	1.65	9.21	9.00	8.00	8.00	1.21	1.00	2.16	2.00	2.16	-----	-----	26 30	3246		
5.11	2.10	1.65	9.52	9.00	8.38	8.00	1.14	1.00	2.17	2.00	2.17	-----	-----	26 25	2461		
6.20	0.84	0.82	8.87	8.00	8.25	7.00	0.52	1.00	1.18	1.00	1.18	-----	-----	28 00	3432		
8.68	0.92	0.82	9.32	9.00	*7.76	8.00	1.56	1.00	1.19	1.00	1.19	-----	-----	2945			
6.15	1.10	0.82	9.57	9.00	8.33	8.00	1.24	1.00	1.30	1.00	1.30	-----	-----	30 00	2523		
8.15	1.03	0.82	9.10	9.00	8.04	8.00	1.06	1.00	4.21	4.00	4.21	-----	-----	-----	2807		
10.16	0.87	0.82	9.31	9.00	8.59	8.00	0.72	1.00	4.49	4.00	4.49	-----	-----	-----	2944		
7.85	1.11	0.82	9.59	9.00	8.87	8.00	0.72	1.00	4.18	4.00	4.18	-----	-----	32 00	3433		
3.34	0.95	0.82	9.43	9.00	8.23	8.00	1.20	1.00	1.96	2.00	1.96	-----	-----	25 50	3774		
5.30	3.67	3.29	9.24	9.00	8.54	8.00	0.70	1.00	4.49	4.00	4.49	-----	-----	-----	2776		
11.84	1.81	1.65	12.86	13.00	*11.21	12.00	1.65	1.00	2.12	2.00	2.12	-----	-----	35 00	2318		
9.75	1.53	1.65	12.69	13.00	*11.77	12.00	0.92	1.00	2.11	2.00	2.11	-----	-----	-----	2245		
4.90	2.93	1.65	10.92	13.00	*10.18	12.00	0.74	1.00	3.40	2.00	3.40	-----	-----	33 25	3031		
9.57	1.09	0.82	9.77	9.00	8.89	8.00	0.88	1.00	2.14	2.00	2.14	-----	-----	25 25	2415		
9.05	0.95	0.82	8.05	8.00	7.27	7.00	0.78	1.00	1.19	1.00	1.19	-----	-----	-----	2862		
7.15	0.90	0.82	8.38	8.00	7.66	7.00	0.72	1.00	1.17	1.00	1.17	-----	-----	29 00	3697		
5.95	0.97	0.82	9.32	9.00	8.28	8.00	1.04	1.00	4.63	4.00	4.63	-----	-----	-----	2803		
9.84	1.79	1.65	9.32	9.00	8.16	8.00	1.16	1.00	3.10	3.00	3.10	-----	-----	35 00	2293		
9.67	1.09	0.82	9.87	9.00	8.19	8.00	1.68	1.00	2.29	2.00	2.29	-----	-----	21 00	3062		
6.50	1.05	0.82	9.36	9.00	8.00	8.00	1.36	1.00	2.49	2.00	2.49	-----	-----	-----	2770		
7.25	1.94	1.65	11.65	11.00	10.27	10.00	1.38	1.00	2.62	2.00	2.62	-----	-----	28 25	3770		
4.05	1.66	1.65	9.78	9.00	8.36	8.00	1.42	1.00	3.38	3.00	3.38	-----	-----	-----	2785		
5.29	1.02	0.82	9.71	9.00	8.75	8.00	0.96	1.00	4.88	4.00	4.88	-----	-----	26 00	2564		
3.95	1.87	1.65	9.98	9.00	8.48	8.00	1.50	1.00	*5.74	6.00	5.74	-----	-----	-----	2782		
3.70	1.86	1.65	9.85	9.00	9.09	8.00	0.76	1.00	6.65	6.00	6.65	-----	-----	-----	3517		
8.15	1.70	1.65	8.75	9.00	7.83	8.00	0.92	1.00	*5.80	6.00	4.30	1.50	-----	38 00	2245		
8.65	*1.44	1.65	9.41	9.00	8.39	8.00	1.02	1.00	2.30	2.00	2.30	-----	-----	28 00	3088		
7.22	0.98	0.82	8.20	8.00	6.88	7.00	1.32	1.00	1.24	1.00	1.24	-----	-----	23 00	2087		
9.54	1.59	1.65	9.16	9.00	*7.70	8.00	1.46	1.00	2.90	3.00	2.90	-----	-----	-----	2936		
5.90	1.81	1.65	9.18	9.00	7.82	8.00	1.36	1.00	3.59	3.00	3.59	-----	-----	28 00	2701		

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2700	Susquehanna XXV Phosphate, -----	W. L. Troub, Honey brook, -----
2285	The Pathfinder 1920, -----	Gibson—Clark Co., Indiana, -----
2820	The Pathfinder 1920, -----	J. R. Hanks, Springboro, -----
2964	The Pathfinder 1920, -----	R. C. Wilson, Dayton, -----
3071	J. E. Tygert's Gold Edge Potato Guano, -----	W. M. Keyser, Oaks, -----
2494	J. E. Tygert's Golden Harvest Phosphate, -----	E. E. Meyer, Fredericksburg, -----
2716	J. E. Tygert's Neptune Fish Compound, -----	J. E. March, Barneston, -----
3619	J. E. Tygert's Neptune Fish Compound, -----	Robert Raker & Son, Liberty, -----
2410	J. E. Tygert's Neptune Fish Compound, -----	Wolfe & Huffman, Watsontown, -----
2563	J. E. Tygert's Popular Phosphate, -----	J. E. Jackson, Everett, -----
3072	J. E. Tygert's Potato Fertilizer, -----	W. M. Keyser, Oaks, -----
2493	J. E. Tygert's Potato Fertilizer, -----	E. E. Meyer, Fredericksburg, -----
2496	J. E. Tygert's Standard Fertilizer, -----	E. E. Meyer, Fredericksburg, -----
2413	J. E. Tygert's Standard Fertilizer, -----	Wolfe & Huffman, Watsontown, -----
3320	J. E. Tygert's Victor Crop Grower, -----	Charles A. Bleyler, Trexlertown, -----
2510	J. E. Tygert's Victor Crop Grower, -----	J. B. Longenecker, Annville, -----
2715	J. E. Tygert's Victor Crop Grower, -----	J. E. March, Barneston, -----
3070	J. E. Tygert's Welcome Brand Fertilizer, -----	W. M. Keyser, Oaks, -----
3467	Wheeler's Corn Fertilizer, -----	A. J. Jones, Moscow, -----
3469	Wheeler's Potato Manure 1920, -----	A. J. Jones, Moscow, -----
3656	Wheeler's Royal Wheat Grower, -----	Wane Patterson, Sagertown, -----
3625	Williams & Clark's Matchless Fertilizer, -----	C. E. Maneval, Morris, -----
3398	Williams & Clark's Prolific Fertilizer, -----	Gallup Hardware Company, Port Allegheny, -----
2805	Wooldridge's Ammoniated Phosphate, -----	Robert Wentz, Wellsville, -----
3423	Wooldridge's Clover Blossom, -----	P. J. Ocker, Troxelville, -----
2479	Wooldridge's Farmers Favorite Cereal Compound, -----	H. V. Smith, Turbotville, -----
3695	Wooldridge's Special Potato and Tobacco Fertilizer, -----	Samuel H. Stump, Hopeland, -----
2345	Wooldridge's Triangle Brand, -----	E. W. Dersham, White Deer, -----
2998	Wooldridge's Triangle Brand, -----	Sol. DeTurk, Greisemersville, -----
2628	Wooldridge's Triangle Brand, -----	C. R. Michaei, Muncy, -----
2683	Zell's Hustler Phosphate, -----	John W. Root, Kimberton, -----
2882	Zell's Hustler Phosphate, -----	Walter Winey, Mexico, -----
AMERICAN FERTILIZING COMPANY, BALTIMORE, MD.		
3311	American Best Crop Formula, -----	Harvey M. Myers, Danboro, -----
3310	American Grain and Grass Grower, -----	Harvey M. Myers, Danboro, -----
ARMOUR FERTILIZER WORKS, BALTIMORE, MD.		
2663	Armour's Big Crop 2-8-5, -----	Frank Duglass, Indiana, -----
3169	Armour's Big Crop 2-8-5, -----	S. Carl Garner, Hatboro, -----
3416	Armour's Big Crop 2-8-5, -----	O. F. Sellers, Weddle, -----
2340	Armour's Big Crop 2-8-10, -----	Luther Bogennif, Mifflinburg, -----
3168	Armour's Big Crop 2-8-10, -----	S. Carl Garner, Hatboro, -----
3389	Armour's Big Crop 2-8-10, -----	J. G. Jamieson Lumber Co., Tionesta, -----
3641	Armour's Big Crop 2-8-10, -----	Oil City Milling Co., Oil City, -----
2923	Armour's Big Crop 2-12-2, -----	M. L. Bachman Estate, Lebanon, -----
3167	Armour's Big Crop 2-12-2, -----	S. Carl Garner, Hatboro, -----
3368	Armour's Big Crop 2-12-2, -----	J. G. Jamieson Lumber Co., Tionesta, -----
2921	Armour's Big Crop 2-16-2, -----	M. L. Bachman Estate, Lebanon, -----
2662	Armour's Big Crop 2-16-2, -----	Frank Duglass, Indiana, -----
3648	Armour's Big Crop 3-8-3, -----	W. E. Ervin, Somerton, -----
3749	Armour's Big Crop 3-8-10, -----	N. J. Miller Co., Elk Lick, -----
2263	Armour's Big Crop 4-8-4, -----	Cresson Flour & Feed Mill, Cresson, -----
2346	Armour's Big Crop 4-8-4, -----	Kane Milling & Groeerv Co., Kane, -----
3411	Armour's Big Crop 4-8-4, -----	John G. Miller, Pine Grove Mills, -----
3746	Armour's Big Crop Special Mixture, -----	N. J. Miller Co., Elk Lick, -----
3390	Armour's Big Crop Special Mixture, -----	Minsch Hardware Co., Marienville, -----
3537	Armour's Crop Grower, -----	O. P. Beebe, Montrose, -----
3155	Armour's Crop Grower, -----	Kneer & Mattern, West Point, -----
3314	Armour's Crop Grower, -----	Nazareth Coal & Lumber Co., Nazareth, -----

## FERTILIZERS—Continued.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
6.04	1.03	0.82	9.54	9.00	8.24	8.00	1.30	1.00	1.15	1.00	1.15	-----	22 00	2700
12.36	0.94	0.82	10.72	10.00	9.46	9.00	1.26	1.00	3.00	3.00	3.00	-----	30 75	2235
2.77	1.02	0.82	10.91	10.00	9.15	9.00	1.76	1.00	3.28	3.00	3.28	-----	29 00	2820
4.37	1.01	0.82	10.57	10.00	9.63	9.00	0.94	1.00	3.38	3.00	3.38	-----	39 75	2954
5.50	2.04	1.65	9.35	9.00	8.61	8.00	0.74	1.00	4.65	4.00	4.65	-----	35 75	3071
7.31	0.84	0.82	9.64	9.00	8.40	8.00	1.24	1.00	2.15	2.00	2.15	-----	27 00	2494
4.60	0.99	0.82	10.64	10.00	9.76	9.00	0.88	1.00	3.40	3.00	3.40	-----	25 55	2716
5.86	1.04	0.82	9.72	10.00	9.06	9.00	0.66	1.00	3.92	3.00	3.92	-----	28 00	3619
8.73	1.08	0.82	10.00	10.00	9.12	9.00	0.88	1.00	3.10	3.00	3.10	-----	23 75	2410
5.29	1.27	0.82	8.50	8.00	7.46	7.00	1.04	1.00	1.31	1.00	1.31	-----	23 00	2563
5.05	3.15	3.29	9.16	9.00	8.50	8.00	0.66	1.00	4.19	4.00	4.19	-----	43 75	3072
7.35	3.23	3.29	9.06	9.00	8.06	8.00	1.00	1.00	4.18	4.00	4.18	-----	41 00	2493
7.25	1.87	1.65	9.48	9.00	8.82	8.00	1.16	1.00	2.71	2.00	2.71	-----	30 75	2496
7.57	1.90	1.65	9.22	9.00	8.06	8.00	1.16	1.00	2.18	2.00	2.18	-----	25 65	2413
3.60	1.08	0.82	9.58	9.00	8.70	8.00	0.88	1.00	4.20	4.00	4.20	-----	29 00	3320
4.12	0.87	0.82	9.95	9.00	8.61	8.00	1.34	1.00	4.60	4.00	4.60	-----	23 75	2570
6.74	1.01	0.82	9.81	9.00	8.73	8.00	1.08	1.00	4.27	4.00	4.27	-----	25 80	2715
3.00	1.02	0.82	10.93	10.00	9.21	9.00	1.72	1.00	2.17	2.00	1.12	1.05	30 75	3670
3.25	1.87	1.65	9.49	9.00	8.81	8.00	0.68	1.00	2.54	2.00	2.54	-----	31 50	3467
2.10	1.82	1.65	9.54	9.00	8.90	8.00	0.64	1.00	3.09	3.00	3.09	-----	32 50	3469
2.85	0.96	0.82	9.72	9.00	8.20	8.00	1.52	1.00	2.45	2.00	2.45	-----	28 00	2656
4.40	1.59	1.65	9.71	9.00	8.67	8.00	1.04	1.00	2.13	2.00	2.13	-----	28 00	3625
2.50	0.99	0.82	9.04	8.00	7.56	7.00	1.48	1.00	1.41	1.00	1.41	-----	32 50	3398
9.00	0.97	0.82	9.52	9.00	8.42	8.00	1.10	1.00	1.37	1.00	1.37	-----	-----	2805
10.21	0.98	0.82	9.27	9.00	8.03	8.00	1.24	1.00	2.17	2.00	2.17	-----	25 00	3423
6.21	1.18	0.82	8.60	8.00	7.36	7.00	1.24	1.00	1.26	1.00	1.26	-----	23 00	2479
8.60	1.74	1.65	11.07	11.00	10.35	10.00	0.72	1.00	2.57	2.00	2.57	-----	27 50	3695
9.79	0.96	0.82	9.03	9.00	8.05	8.00	0.98	1.00	4.54	4.00	4.54	-----	26 00	2925
5.42	1.12	0.82	9.81	9.00	8.57	8.00	1.24	1.00	4.71	4.00	4.71	-----	26 00	2928
7.10	0.95	0.82	9.82	9.00	8.96	8.00	0.86	1.00	4.06	4.00	4.06	-----	27 00	2628
6.50	0.90	0.82	10.28	10.00	9.32	9.00	0.96	1.00	3.46	3.00	3.46	-----	28 00	2683
6.79	0.97	0.82	10.33	10.00	9.48	9.00	0.90	1.00	3.54	3.00	3.54	-----	27 00	2882
3.20	1.82	1.65	11.45	11.00	10.29	10.00	1.16	1.00	6.60	6.00	6.60	-----	35 00	3311
4.12	1.08	0.82	11.39	10.00	9.85	9.00	1.54	1.00	3.43	3.00	3.43	-----	28 00	3310
6.50	1.60	1.65	8.25	8.50	7.89	8.00	0.36	0.50	5.14	5.00	5.14	-----	36 00	2663
7.70	1.48	1.65	8.55	8.50	8.03	8.00	0.52	0.50	5.55	5.00	5.55	-----	31 75	3169
4.25	1.77	1.65	8.60	8.50	8.10	8.00	0.50	0.50	5.17	5.00	5.17	-----	25 00	2416
5.78	1.95	1.65	8.39	8.50	8.01	8.00	0.38	0.50	11.04	10.00	11.04	-----	36 00	2340
4.00	1.55	1.65	8.65	8.50	8.27	8.00	0.38	0.50	10.10	10.00	10.10	-----	36 25	3168
5.00	1.81	1.65	8.66	8.50	8.46	8.00	0.20	0.50	10.44	10.00	10.44	-----	40 00	3389
2.80	1.80	1.65	9.13	8.50	8.53	8.00	0.60	0.50	*9.37	10.00	9.37	-----	36 25	3641
6.09	1.91	1.65	12.04	12.50	12.19	12.00	0.99	0.50	2.24	2.00	2.24	-----	35 00	2923
7.42	1.00	1.65	12.25	12.50	*11.64	12.00	0.71	0.50	2.37	2.00	2.37	-----	32 00	3167
5.05	1.82	1.65	12.08	12.50	*11.58	12.00	0.50	0.50	2.91	2.00	2.91	-----	36 00	3382
8.72	1.91	1.65	16.44	16.50	16.06	16.00	0.38	0.50	2.31	2.00	2.31	-----	33 50	2921
5.40	1.85	1.65	17.40	16.50	16.78	16.00	0.62	0.50	2.29	2.00	2.29	-----	40 00	2662
6.21	2.46	2.47	9.20	8.50	8.38	8.00	0.82	0.50	3.45	3.00	3.45	-----	34 00	3048
3.85	2.32	2.47	8.48	8.50	8.36	8.00	0.12	0.50	10.57	10.00	10.57	-----	40 00	3749
2.97	3.34	3.29	8.79	8.50	8.23	8.00	0.56	0.50	4.03	4.00	4.03	-----	41 00	3265
2.85	3.37	3.29	8.51	8.50	8.19	8.00	0.32	0.50	4.22	4.00	4.32	-----	50 00	3346
3.75	3.27	3.29	8.46	8.50	8.04	8.00	0.42	0.50	4.30	4.00	4.30	-----	29 70	3411
3.35	1.87	1.65	11.47	9.50	9.21	9.00	2.26	0.50	3.41	3.00	3.41	-----	31 50	3746
4.75	1.60	1.65	10.38	9.50	9.06	9.00	1.32	0.50	5.25	3.00	5.25	-----	37 00	3390
3.56	0.93	0.82	8.29	8.50	7.83	8.00	0.46	0.50	2.29	2.00	2.29	-----	25 00	2537
5.02	0.92	0.82	8.92	8.50	8.20	8.00	0.72	0.50	2.62	2.00	2.62	-----	29 00	3165
2.37	1.00	0.82	8.42	8.50	8.18	8.00	0.26	0.50	2.42	2.00	2.42	-----	28 00	3314

\*Deficient.



TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample taken From—
2520	Armour's Grain Grower, -----	Farmers Co-operative Association, Pine Grove Mills.
2559	Armour's Grain Grower, -----	Hibner-Hoyer Hardware Co., DuBois, --
2302	Armour's Grain Grower, -----	H. C. Moyer, Blooming Glen, -----
2674	Armour's Grain Grower, -----	Reynoldsville Hardware Co., Reynolds-ville.
2533	Armour's Royal Ammoniated, -----	H. O. Andrews & Sons, McVeytown, --
3068	Armour's Royal Ammoniated, -----	James W. Butz, Palm, -----
3747	Armour's Royal Ammoniated, -----	N. J. Miller Co., Elk Lick, -----
3301	Armour's Royal Ammoniated, -----	H. C. Moyer, Blooming Glen, -----
3348	Armour's Wheat, Corn and Oats Special, -----	L. A. Fischer & Co., Bradford, -----
3658	Armour's Wheat, Corn and Oats Special, -----	J. H. Laverys Sons, Franklin, -----
2673	Armour's Wheat, Corn and Oats Special, -----	Reynoldsville Hardware Co., Reynolds-ville.
2253	Tuscarora Crop Grower, -----	Great Valley Mills Co., Exton, -----
2251	Tuscarora Fish and Potash Mixture, ---	Great Valley Mills Co., Exton, -----
2250	Tuscarora High Grade Potato, -----	Great Valley Mills Co., Exton, -----
3050	Tuscarora Standard Phosphate, -----	Hibner Danenberger, Huntingdon Valley, -----
	BALTIMORE FERTILIZER CO., BALTI-MORE, MD.	
2758	Honest Crop Grower, -----	I. N. Lightener, Gettysburg, -----
2759	Old Honesty, -----	I. N. Lightener, Gettysburg, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
2593	Baugh's Animal Base and Potash Com-pound for All Crops. -----	Francis Baker, Everett, -----
2590	Baugh's Animal Base and Potash Com-pound for All Crops. -----	G. W. Bennett, Williamsport, -----
2577	Baugh's Animal Base and Potash Com-pound for All Crops. -----	Boettinger & Wargo, Danville, -----
3769	Baugh's Animal Base and Potash Com-pound for All Crops. -----	Rogers & Garrett, Somerfield, -----
2515	Baugh's Commercial Super-Phosphate, ---	The Cook Grain Feed & Supply Co., Dillsburg.
3184	Baugh's Commercial Super-Phosphate, ---	Flook Brothers, Saladaysburg, -----
3615	Baugh's Commercial Super-Phosphate, ---	Jacob Keek Sons, Middlebury Center, ---
2237	Baugh's Commercial Super-Phosphate, ---	Chas. A. Zell, Bryn Mawr, -----
2598	Baugh's Complete Animal Base Fertilizer, -----	G. W. Bennett, Williamsport, -----
3271	Baugh's Complete Animal Base Fertilizer, -----	Edwards Hardware Co., Ebsenburg, ---
3613	Baugh's Complete Animal Base Fertilizer, -----	Jacob Keek Sons, Middlebury Center, ---
3770	Baugh's Complete Animal Base Fertilizer, -----	Rogers & Garrett, Somerfield, -----
3415	Baugh's Corn and Oats Fertilizer, -----	John Bathgate, State College, -----
2740	Baugh's Corn and Oats Fertilizer, -----	Fisher & Nolan, Malvern, -----
2859	Baugh's Corn and Oats Fertilizer, -----	F. R. Varcol, Waymarth, -----
2595	Baugh's Double Eagle Phosphate, -----	G. W. Bennett, Williamsport, -----
3764	Baugh's Double Eagle Phosphate, -----	Rogers & Garrett, Somerfield, -----
2814	Baugh's Durable Plant Food, -----	The Cook Grain Feed & Supply Co., Dillsburg.
2813	Baugh's Economical Crop Producer, -----	The Cook Grain Feed & Supply Co., Dillsburg.
2518	Baugh's Economical Crop Producer, -----	R. D. Foreman, Centre Hall, -----
3236	Baugh's Economical Crop Producer, -----	W. B. Thompson & Son, Waynesboro, --
2330	Baugh's Excelsior Guano, -----	John Eby, Zion, -----
3125	Baugh's Excelsior Guano, -----	Flook Brothers, Saladaysburg, -----
2861	Baugh's Excelsior Guano, -----	F. R. Varcol, Waymarth, -----
2238	Baugh's Excelsior Guano, -----	Chas. A. Zell, Bryn Mawr, -----
2601	Baugh's Fish Bone and Potash, -----	G. W. Bennett, Williamsport, -----
3044	Baugh's Fish Bone and Potash, -----	W. E. Ervin, Somerton, -----
3735	Baugh's Fish Bone and Potash, -----	C. H. Sehnucker, Friedens, -----
3569	Baugh's Fish Mixture, -----	Thomas Garrison, Berwick, -----
2259	Baugh's Fish Mixture, -----	The Hoopes Lumber Co., Kennett Square, -----
3668	Baugh's General Crop Grower, -----	Bell Brothers, West Middlesex, -----
2578	Baugh's General Crop Grower, -----	Boettinger & Wargo, Danville, -----
2228	Baugh's General Crop Grower, -----	H. A. Mendenhall, Toughkenamon, -----



## FERTILIZERS—Continued.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.00	2.10	1.65	8.65	8.50	7.91	8.00	0.74	0.50	2.11	2.00	2.11	-----	23 60	2520
4.48	1.79	1.65	8.87	8.50	8.11	8.00	0.76	0.50	2.32	2.00	2.32	-----	29 50	3259
3.57	1.75	1.65	8.74	8.50	8.20	8.00	0.54	0.50	2.14	2.00	2.14	-----	36 00	3392
4.17	1.73	1.65	8.85	8.50	8.11	8.00	0.74	0.50	2.05	2.00	2.05	-----	28 75	2674
3.90	1.14	0.82	8.46	8.50	8.10	8.00	0.36	0.50	4.15	4.00	4.15	-----	23 00	2533
3.14	1.17	0.82	8.56	8.50	8.12	8.00	0.44	0.50	4.55	4.00	4.55	-----	32 00	3068
3.30	1.01	0.82	8.61	8.50	8.11	8.00	0.50	0.50	4.60	4.00	4.60	-----	26 75	3747
3.15	1.21	0.82	8.85	8.50	8.69	8.00	0.16	0.50	*3.75	4.00	3.75	-----	34 00	3301
1.70	1.13	0.82	7.72	7.50	7.42	7.00	0.30	0.50	1.38	1.00	1.38	-----	30 00	3348
2.30	0.94	0.82	7.48	7.50	*6.54	7.00	0.94	0.50	1.61	1.00	1.61	-----	25 00	3638
3.22	0.90	0.82	7.79	7.50	7.49	7.00	0.30	0.50	1.28	1.00	1.28	-----	23 25	2473
5.31	0.95	0.82	8.55	8.50	8.17	8.00	0.38	0.50	2.09	2.00	2.09	-----	25 50	2253
5.67	1.93	1.65	8.28	8.50	7.94	8.00	0.34	0.50	3.30	3.00	3.30	-----	30 00	2251
5.92	2.06	1.65	8.24	8.50	7.94	8.00	0.30	0.50	*9.46	10.00	9.46	-----	56 60	2250
2.82	1.95	1.65	10.51	8.50	9.21	8.00	1.30	0.50	2.12	2.00	2.12	-----	-----	3050
6.73	0.94	0.82	8.64	8.50	8.16	8.00	0.48	0.50	1.64	1.00	1.64	-----	28 00	2758
7.51	0.77	0.41	9.13	8.50	8.59	8.00	0.54	0.50	2.34	2.00	2.34	-----	27 00	2759
5.65	2.00	1.65	9.15	8.00	8.03	8.00	1.12	-----	2.37	2.00	2.37	-----	28 00	2393
10.20	1.73	1.65	8.93	8.00	8.25	8.00	0.68	-----	5.19	2.00	5.19	-----	33 00	2599
7.10	2.13	1.65	9.07	8.00	8.01	8.00	1.06	-----	2.37	2.00	2.37	-----	28 00	2577
3.94	1.87	1.65	10.05	8.00	9.11	8.00	0.94	-----	3.30	2.00	3.30	-----	-----	3769
6.80	1.53	1.65	9.49	8.00	8.25	8.00	1.24	-----	*9.18	10.00	9.18	-----	32 75	2815
5.31	1.54	1.65	9.10	8.00	8.10	8.00	1.00	-----	10.29	10.00	10.29	-----	38 00	3184
7.10	1.78	1.65	8.66	8.00	8.07	8.00	0.59	-----	10.76	10.00	10.76	-----	35 00	3615
9.71	1.95	1.65	8.89	8.00	7.99	8.00	0.90	-----	*9.70	10.00	8.60	1.10	38 00	2237
10.06	1.64	1.65	8.70	8.00	8.00	8.00	0.70	-----	5.21	5.00	5.21	-----	33 00	2598
6.21	1.70	1.65	10.17	8.00	8.71	8.00	1.46	-----	5.49	5.00	5.49	-----	32 00	3271
7.20	1.77	1.65	8.87	8.00	8.03	8.00	0.84	-----	5.25	5.00	5.25	-----	30 00	3613
6.42	1.72	1.65	9.10	8.00	8.28	8.00	0.82	-----	5.32	5.00	5.32	-----	37 00	3770
8.80	1.81	1.65	12.96	12.00	12.22	12.00	0.74	-----	2.10	2.00	2.10	-----	28 00	2415
8.80	1.92	1.65	13.29	12.00	12.79	12.00	0.50	-----	2.26	2.00	2.26	-----	33 00	2740
7.00	1.62	1.65	12.91	12.00	12.37	12.00	0.54	-----	2.64	2.00	2.64	-----	38 00	2859
7.85	1.77	1.65	10.61	10.00	*9.62	10.00	0.99	-----	1.33	1.00	1.33	-----	31 00	2555
4.00	1.90	1.65	12.05	10.00	10.93	10.00	1.12	-----	1.33	1.00	1.33	-----	37 64	3764
6.82	1.00	0.82	9.36	8.00	8.52	8.00	0.84	-----	*2.79	3.00	2.79	-----	23 65	2814
6.60	1.04	0.82	9.73	8.00	8.79	8.00	0.94	-----	2.06	2.00	2.06	-----	21 85	2813
4.51	1.44	0.82	8.69	8.00	8.05	8.00	0.64	-----	3.41	2.00	3.41	-----	24 00	2518
7.15	1.13	0.82	9.34	8.00	8.38	8.00	0.96	-----	2.74	2.00	2.74	-----	24 25	3236
9.16	1.10	0.82	9.01	8.00	8.09	8.00	0.92	-----	4.05	4.00	4.05	-----	25 25	2330
7.45	1.11	0.82	9.17	8.00	8.19	8.00	0.98	-----	4.04	4.00	4.04	-----	29 45	3125
5.65	0.89	0.82	8.67	8.00	7.91	8.00	0.76	-----	4.23	4.00	4.23	-----	34 00	2861
8.59	1.13	0.82	8.75	8.00	8.09	8.00	0.66	-----	4.04	4.00	4.04	-----	29 00	2238
5.50	3.19	3.30	9.22	8.00	8.50	8.00	0.72	-----	4.19	4.00	4.19	-----	38 00	2601
6.15	3.56	3.30	9.06	8.00	8.44	8.00	0.62	-----	4.71	4.00	4.71	-----	37 00	5044
5.15	3.35	3.30	9.13	8.00	8.67	8.00	0.46	-----	4.17	4.00	4.17	-----	31 00	3735
8.25	1.68	1.65	8.97	8.00	7.99	8.00	0.98	-----	2.08	2.00	2.08	-----	25 75	3599
9.12	1.91	1.65	8.88	8.00	8.10	8.00	0.78	-----	2.24	2.00	2.24	-----	27 50	2259
6.00	1.04	0.82	9.08	8.00	8.34	8.00	0.74	-----	1.36	1.00	1.36	-----	23 75	3668
8.03	1.25	0.82	8.84	8.00	8.16	8.00	0.68	-----	1.27	1.00	1.27	-----	24 00	2578
8.27	1.26	0.82	9.45	8.00	8.17	8.00	1.28	-----	1.53	1.00	1.53	-----	25 00	2223

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample taken From—
3570	Baugh's Grand Rapid Guano, -----	Thos. Garrison, Berwick, -----
3133	Baugh's Grand Rapid Guano, -----	West Manheim United Farmers Association, Hanover.
2575	Baugh's Peruvian Guano Substitute, -----	Boettlinger & Wargo, Danville, -----
3414	Baugh's Potato and Truck Special, -----	John Bathgat, State College, -----
2741	Baugh's Potato and Truck Special, -----	Fisher & Nolan, Malvern, -----
2860	Baugh's Potato and Truck Special, -----	F. R. Varcol, Waymarth, -----
2390	Baugh's Special Potato Manure, -----	Francis Baker, Everett, -----
2260	Baugh's Special Potato Manure, -----	The Hoopes Lumber Co., Kennett Square, -----
3738	Baugh's Special Potato Manure, -----	C. H. Schmucker, Friedens, -----
2862	Baugh's Special Potato Manure, -----	F. R. Varcol, Waymarth, -----
3698	Baugh's Wrapper Leaf Brand, -----	Lancaster County Farmers Supply Co., Manheim.
<b>BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.</b>		
2869	Bowker's Corn and Grain Grower, -----	J. B. Dymond, Waymarth, -----
2661	Bowker's Corn and Grain Grower, -----	J. H. McWhirter, Mercer, -----
2865	Bowker's Corn and Wheat Guano, -----	J. B. Dymond, Waymarth, -----
3660	Bowker's Farm and Garden Phosphate, -----	J. H. McWhirter, Mercer, -----
3222	Bowker's Farm and Garden Phosphate, -----	H. F. Uplinger, Reynoldsville, -----
2297	Bowker's Potato Special, -----	L. Todd Owens, Apollo, -----
3333	Bowker's Special Crop Grower, -----	Geo. S. Caffey, Hollicong, -----
2867	Bowker's Staple Phosphate, -----	J. B. Dymond, Waymarth, -----
2868	Bowker's Sure Crop Phosphate Revised, -----	J. B. Dymond, Waymarth, -----
3564	Bowker's Sure Crop Phosphate Revised, -----	A. C. Eckrote & Brother, Sybertsville, -----
3528	Bowker's Sure Crop Phosphate Revised, -----	H. M. Spalding Son, Troy, -----
<b>BRYANT FERTILIZER COMPANY, ALEXANDRIA, VA.</b>		
3643	Bryant's Garden Manure, -----	J. L. Alcorn, Titusville, -----
<b>THE CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD.</b>		
2405	Gro-All Crown Jewell, -----	N. G. Adams, Paxinos, -----
2225	Gro-All Crown Jewell, -----	Wm. C. Ball, Media, -----
3281	Gro-All Crown Jewell, -----	M. R. Brumbaugh & Son, Martinsburg, -----
3234	Gro-All Crown Jewell, -----	Franklin Miller & Son, Greencastle, -----
2872	Gro-All Crown Jewell, -----	P. S. Pellman, Richfield, -----
3771	Gro-All Empire, -----	T. J. Jacobs, Somerfield, -----
3233	Gro-All Empire, -----	Franklin Miller & Son, Greencastle, -----
2406	Gro-All Excelsior, -----	N. G. Adams, Paxinos, -----
3237	Gro-All Excelsior, -----	W. B. Thompson, Waynesboro, -----
2404	Gro-All Fish and Potash Compound, -----	N. G. Adams, Paxinos, -----
2227	Gro-All Golden Sheaf, -----	Wm. C. Ball, Media, -----
2748	Gro-All Golden Sheaf, -----	Fayetteville Feed & Grain Co., Fayetteville.
3750	Gro-All Grain and Grass Grower, -----	Lloyd Hay, Meyersdale, -----
3748	Gro-All Grain and Grass Grower, -----	N. J. Miller Co., Elk Lick, -----
2955	Gro-All Grain and Grass Grower, -----	Strickler & Gillen, Greencastle, -----
3285	Gro-All Potato Special, -----	M. R. Brumbaugh & Son, Martinsburg, -----
2747	Gro-All Potato Special, -----	Fayetteville Feed & Grain Co., Fayetteville.
3425	Gro-All Potato Special, -----	Adam Yeader, McClure, -----
2226	Gro-All Valley Mixture, -----	Wm. C. Ball, Media, -----
2749	Gro-All Valley Mixture, -----	Fayetteville Feed & Grain Co., Fayetteville.
3773	Gro-All Valley Mixture, -----	T. J. Jacobs, Somerfield, -----

## FERTILIZERS—Continued.

NITRO-GEN.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Moisture.	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.09	2.56	2.47	9.26	8.00	8.84	8.00	0.42	-----	3.09	3.00	3.09	-----	30 70	3570
5.06	2.84	2.47	9.30	8.00	8.68	8.00	0.62	-----	3.22	3.00	3.22	-----	30 00	3133
6.75	3.93	4.12	6.51	6.00	6.15	6.00	0.36	-----	4.90	5.00	4.90	-----		2575
7.54	*2.89	3.30	10.60	8.00	9.88	8.00	0.72	-----	*4.56	6.00	4.56	-----	35 80	3414
5.37	3.29	3.30	9.43	8.00	8.97	8.00	0.46	-----	6.10	6.00	6.10	-----	42 00	2741
3.60	3.31	3.30	9.35	8.00	8.41	8.00	0.94	-----	6.12	6.00	6.12	-----	43 00	2860
7.45	1.92	1.65	9.35	8.00	8.41	8.00	0.94	-----	5.12	5.00	5.12	-----	32 00	2590
7.76	1.76	1.65	8.71	8.00	8.07	8.00	0.64	-----	5.01	5.00	5.01	-----	30 75	2260
5.74	1.65	1.65	8.92	8.00	8.46	8.00	0.46	-----	5.14	5.00	5.14	-----	28 00	3738
6.00	1.83	1.65	8.87	8.00	8.33	8.00	0.54	-----	5.33	5.00	5.33	-----	38 00	2562
5.36	3.40	3.30	5.54	3.50	5.04	3.50	0.50	-----	5.28	5.00	0.80	4.58	38 00	3698
2.93	1.08	0.82	9.50	9.00	8.58	8.00	0.92	1.00	4.31	4.00	4.31	-----	32 00	2869
3.36	0.92	0.82	10.15	9.00	9.05	8.00	1.10	1.00	4.68	4.00	4.68	-----	27 75	3661
6.45	1.77	1.65	9.25	9.00	8.45	8.00	0.80	1.00	4.35	4.00	4.35	-----	37 00	2865
1.90	1.61	1.65	9.55	9.00	8.79	8.00	0.76	1.00	2.44	2.00	2.44	-----	37 00	3660
6.85	1.81	1.65	9.15	9.00	8.11	8.00	1.04	1.00	2.26	2.00	2.26	-----	32 50	1222
7.04	3.45	3.29	9.57	9.00	8.63	8.00	0.94	1.00	3.07	3.00	3.07	-----	40 00	2297
3.62	1.98	1.65	9.02	9.00	8.54	8.00	0.48	1.00	*9.50	10.00	9.50	-----	38 00	3333
3.61	0.94	0.82	9.40	9.00	8.54	8.00	0.86	1.00	1.49	1.00	1.49	-----	28 00	2867
3.25	0.91	0.82	9.55	9.00	8.69	8.00	0.86	1.00	2.01	2.00	2.01	-----	30 00	2868
4.60	0.98	0.82	9.82	9.00	8.98	8.00	0.84	1.00	2.24	2.00	2.24	-----	23 50	2594
4.00	0.90	0.82	8.99	9.00	8.49	8.00	0.50	1.00	2.17	2.00	2.17	-----	30 00	3528
3.70	2.30	2.47	8.81	8.00	7.31	7.00	1.50	1.00	3.08	3.00	3.08	-----	36 50	3643
5.03	1.10	0.82	9.16	9.50	*8.48	9.00	0.68	0.50	3.05	3.00	3.05	-----	28 00	2405
7.00	1.06	0.82	9.58	9.50	9.04	9.00	0.54	0.50	3.17	3.00	3.17	-----	26 75	2225
3.75	0.98	0.82	9.80	9.50	9.12	9.00	0.68	0.50	3.05	3.00	3.05	-----	28 00	3281
7.40	1.17	0.82	9.63	9.50	8.89	9.00	0.74	0.50	3.14	3.00	3.14	-----	27 00	2234
3.88	1.00	0.82	10.47	9.50	9.39	9.00	1.08	0.50	3.88	3.00	3.88	-----	32 00	2872
2.65	1.67	1.65	8.89	8.50	8.61	8.00	0.28	0.50	10.85	10.00	10.85	-----	37 80	3771
5.35	1.92	1.65	9.04	8.50	8.48	8.00	0.56	0.50	*9.29	10.00	9.29	-----	33 00	3233
6.70	1.78	1.65	9.46	8.50	8.72	8.00	0.74	0.50	*3.64	4.00	3.64	-----	32 00	2406
6.74	1.97	1.65	8.93	8.50	8.16	8.00	0.77	0.50	4.02	4.00	4.02	-----	26 25	3237
4.90	1.37	1.03	9.12	8.50	8.60	8.00	0.52	0.50	2.37	2.00	2.37	-----	27 00	2404
7.19	1.00	0.82	8.75	8.50	8.21	8.00	0.54	0.50	1.24	1.00	1.24	-----	24 00	2227
7.00	1.15	0.82	8.71	8.50	8.21	8.00	0.50	0.50	1.21	1.00	1.21	-----	22 20	2748
4.45	1.63	1.65	13.13	12.50	12.61	12.00	0.52	0.50	2.39	2.00	2.39	-----	31 00	3750
4.90	1.83	1.65	13.57	12.50	12.67	12.00	0.90	0.50	2.50	2.00	2.50	-----	31 00	3748
9.25	1.88	1.65	13.01	12.50	12.18	12.00	0.83	0.50	2.42	2.00	2.42	-----	32 00	2355
6.25	*2.90	3.29	9.22	8.50	8.68	8.00	0.54	0.50	7.23	7.00	7.23	-----	50 00	3285
6.21	3.50	3.29	9.85	8.50	9.45	8.00	0.40	0.50	7.87	7.00	7.87	-----	40 00	2747
7.95	*3.05	3.29	8.69	8.50	8.00	8.00	0.60	0.50	7.57	7.00	7.57	-----	38 00	3425
6.38	1.83	1.65	8.39	8.50	8.05	8.00	0.34	0.50	2.02	2.00	2.02	-----	28 75	2226
7.85	1.74	1.65	9.66	8.50	9.04	8.00	0.62	0.50	2.28	2.00	2.28	-----	26 75	2719
3.90	1.85	1.65	9.57	8.50	8.89	8.00	0.68	0.50	2.47	2.00	2.47	-----	30 00	3773

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE COE-MORTIMER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
3118	E. Frank Coe's Celebrated Special Potato Fertilizer.	George A. Kunkle, Montoursville, -----
3509	E. Frank Coe's Celebrated Special Potato Fertilizer.	Frank Lewis, New Albany, -----
2858	E. Frank Coe's Celebrated Special Potato Fertilizer.	E. E. White, Eddelia, -----
3481	E. Frank Coe's Columbian Corn and Potato Fertilizer.	Abington Lumber Co., Dalton, -----
2387	E. Frank Coe's Columbian Corn and Potato Fertilizer.	Geo. W. Dibert, Bedford, -----
3115	E. Frank Coe's Columbian Corn and Potato Fertilizer.	George A. Kunkle, Montoursville, -----
3572	E. Frank Coe's Complete Manure with 6% Potash.	G. R. Brown, Nescopeek, -----
3324	E. Frank Coe's Extra Potash Fertilizer, --	J. D. Baker, Holland, -----
3182	E. Frank Coe's Extra Potash Fertilizer, --	Brown & Rea, Atglen, -----
2911	E. Frank Coe's Extra Potash Fertilizer, --	H. R. Longenecker, Rheems, -----
2993	E. Frank Coe's Gold Brand Excelsior Guano.	Isaac Rothenberger, Linekiln, -----
3187	E. Frank Coe's New Englander Special, --	E. Day, Brookside, -----
2992	E. Frank Coe's New Englander Special, --	Isaac Rothenberger, Linekiln, -----
2910	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	H. R. Longenecker, Rheems, -----
2870	E. Frank Coe's Western New Yorker, ----	Henry Brown, Cocolamus, -----
3336	E. Frank Coe's Western New Yorker, ----	T. M. Crouse, Regelsville, -----
3508	E. Frank Coe's Western New Yorker, ----	Frank Lewis, New Albany, -----
	THE CONSUMERS CHEMICAL CORPORATION, AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL COMPANY, NEW YORK, N. Y.	
3521	Bonanza Brand, -----	Wm. Bailey, Towanda, -----
3524	Commander Brand, -----	Wm. Bailey, Towanda, -----
3523	Commander Brand, -----	Wm. Mitnan, Easton, -----
3523	Fish Phosphate and Potash Brand, -----	Wm. Bailey, Towanda, -----
2311	Model Brand, -----	E. H. Hays, Clintondale, -----
2309	Oxbow Brand, -----	E. H. Hays, Clintondale, -----
	THE JAS. G. DOWNWARD CO., COATESVILLE, PA.	
3062	Ammoniated Phosphate, -----	M. S. Bailey, Malvern, -----
3061	Corn and Grain Phosphate, -----	M. S. Bailey, Malvern, -----
3060	Pioneer Potato Phosphate, -----	M. S. Bailey, Malvern, -----
3058	Potato Phosphate, -----	M. S. Bailey, Malvern, -----
3059	Royal Phosphate, -----	M. S. Bailey, Malvern, -----
	THE DUMONT FERTILIZER CO., INC., PHILADELPHIA, PA.	
2738	Dumont's 1-8-1, -----	Garfield Milhous, Mendenhall, -----
3136	Dumont's 1-8-1, -----	West Manheim United Farmers Association, Hanover, -----
3419	Dumont's 1-8-2, -----	C. L. Bowersox, Middleburg, -----
2305	Dumont's 1-9-3, -----	E. J. Houck & Son, Bangor, -----
2691	Dumont's 2-8-2, -----	Albright & Schwoyer, Kempton, -----
2739	Dumont's 2-8-2, -----	Garfield Milhous, Mendenhall, -----
2737	Dumont's 2-8-5, -----	Garfield Milhous, Mendenhall, -----
3304	Dumont's 2-8-10, -----	E. J. Houck & Son, Bangor, -----



## FERTILIZERS—Continued.

FERTILIZERS. Continued.														
Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as muriate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
9.05	*2.94	3.29	8.93	9.00	7.99	8.00	0.94	1.00	4.50	4.00	4.50	-----	41 75	3118
4.90	3.40	3.29	8.99	9.00	8.63	8.00	0.36	1.00	4.58	4.00	4.58	-----	37 50	3509
5.07	3.27	3.29	9.15	9.00	8.11	8.00	1.04	1.00	4.46	4.00	3.80	0.66	45 00	2858
1.58	1.98	1.65	9.17	9.00	8.75	8.00	0.42	1.00	9.55	3.00	9.55	-----	35 00	3481
9.06	1.84	1.65	8.64	9.00	*7.34	8.00	1.30	1.00	3.51	3.00	3.51	-----	-----	2387
9.35	1.75	1.65	9.59	9.00	8.03	8.00	1.56	1.00	2.92	3.00	2.92	-----	33 25	3115
6.62	3.27	3.29	9.07	9.00	8.49	8.00	0.58	1.00	6.09	6.00	6.09	-----	-----	3572
2.80	2.03	1.65	8.67	9.00	8.23	8.00	0.44	1.00	10.48	10.00	10.48	-----	-----	3324
6.53	1.49	1.65	9.41	9.00	*7.37	8.00	2.04	1.00	11.24	10.00	11.24	-----	33 75	3182
3.82	1.77	1.65	9.22	9.00	7.90	8.00	1.32	1.00	11.24	10.00	11.24	-----	35 00	2911
8.01	2.28	2.47	9.27	9.00	8.21	8.00	1.66	1.00	3.91	4.00	3.91	-----	-----	2993
4.27	1.01	0.82	9.45	9.00	7.91	8.00	1.54	1.00	2.25	2.00	2.25	-----	28 50	3187
8.10	0.83	0.82	9.27	9.00	8.31	8.00	0.96	1.00	2.20	2.00	2.20	-----	-----	2992
5.15	1.08	0.82	11.33	11.00	10.11	10.00	1.22	1.00	1.32	1.00	1.32	-----	26 00	2910
5.26	0.93	0.82	9.32	9.00	8.18	8.00	1.14	1.00	5.07	4.00	5.07	-----	24 00	2870
3.26	1.19	0.82	9.38	9.00	8.48	8.00	0.90	1.00	4.26	4.00	4.26	-----	34 00	3326
4.25	0.91	0.82	9.32	9.00	8.78	8.00	0.54	1.00	4.16	4.00	4.16	-----	27 00	3508
2.85	*2.08	2.47	10.06	10.00	9.40	9.00	0.66	1.00	5.91	5.00	5.91	-----	35 00	3521
2.99	1.77	1.65	9.55	9.00	8.99	8.00	0.56	1.00	*9.30	10.00	9.30	-----	35 00	3524
3.58	2.00	1.65	8.83	9.00	8.47	8.00	0.36	1.00	11.10	10.00	11.10	-----	30 60	3323
4.20	1.84	1.65	10.01	9.00	8.85	8.00	1.16	1.00	2.37	2.00	2.37	-----	27 00	3523
7.48	1.05	0.82	8.62	9.00	*6.76	8.00	1.86	1.00	2.03	2.00	2.03	-----	24 75	2311
8.72	1.19	0.82	9.72	9.00	*7.24	8.00	2.48	1.00	1.25	1.00	1.25	-----	23 75	2309
3.29	0.90	0.82	9.71	8.00	8.07	7.00	1.64	1.00	1.44	1.00	1.44	-----	28 00	2062
3.90	*1.21	1.65	9.39	8.00	7.87	7.00	1.52	1.00	3.92	3.00	3.92	-----	32 00	3061
2.37	*2.13	2.45	8.15	8.00	7.19	7.00	0.96	1.00	11.16	10.00	11.16	-----	40 00	3060
3.00	*1.19	1.65	8.80	8.00	7.58	7.00	1.22	1.00	*4.85	6.00	4.85	-----	34 00	3058
3.40	0.85	0.82	9.52	8.00	8.06	7.00	1.46	1.00	3.11	3.00	3.11	-----	30 00	3059
9.10	1.12	0.82	12.54	9.00	11.34	8.00	1.20	1.00	1.47	1.00	1.47	-----	23 00	2738
6.61	1.14	0.82	9.46	9.00	*7.72	8.00	1.74	1.00	1.31	1.00	0.20	1.11	21 25	3136
8.80	1.57	0.82	11.86	9.00	10.18	8.00	1.68	1.00	2.68	2.00	2.68	-----	24 30	3419
4.82	0.99	0.82	13.27	10.00	12.27	9.00	1.00	1.00	3.48	3.00	3.48	-----	-----	3305
10.00	1.49	1.64	10.72	9.00	10.50	8.00	0.52	1.00	1.87	2.00	1.87	-----	26 50	2691
6.00	1.74	1.64	10.59	9.00	9.49	8.00	1.10	1.00	2.25	2.00	2.25	-----	26 00	2739
4.23	1.98	1.64	12.23	9.00	11.17	8.00	1.06	1.00	*0.31	5.00	0.31	-----	30 00	2737
4.48	2.12	1.64	11.23	9.00	9.71	8.00	1.52	1.00	10.31	10.00	10.31	-----	-----	3304

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number	Name of Manufacturer and Brand.	Sample taken From—
	<b>EASTERN GUANO COMPANY, NEW YORK, N. Y.</b>	
2957	Eastern Cannery Special, -----	Omwake Brothers, Greencastle, -----
2958	Eastern Grain Special, -----	Omwake Brothers, Greencastle, -----
	<b>EUREKA CHEMICAL COMPANY, BALTIMORE, MD.</b>	
3063	Eureka Corn and Potash, -----	Frank Rees, Phoenixville, -----
2338	Eureka Fish and Potash, -----	M. C. Catheman, Mifflinburg, -----
3066	Eureka Fish and Potash, -----	Frank Rees, Phoenixville, -----
2339	Eureka Grain and Grass, -----	M. C. Catheman, Mifflinburg, -----
3065	Eureka Grain and Grass, -----	Frank Rees, Phoenixville, -----
2746	Eureka No. 1 Fish and Potash, -----	W. H. Nesbit, McConnelshurg, -----
2341	Eureka Potato and Vegetable, -----	M. C. Catheman, Mifflinburg, -----
2745	Eureka Potato and Vegetable, -----	W. H. Nesbit, McConnelshurg, -----
	<b>FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.</b>	
2905	Farmers Best Yet, -----	W. B. Gouchnauer, Lititz, -----
3729	Farmers Favorite, -----	E. B. Fritz & Sons Co., Quarryville, -----
2569	Farmers Favorite, -----	John Sheetz, Elizabethtown, -----
2892	Pride of Donegal, -----	B. F. Horting, Newport, -----
	<b>GRIFFITH &amp; BOYD CO., BALTIMORE, MD.</b>	
2483	Griffith & Boyd Co.'s Cereal Plant Food, -----	J. O. Kehres, Red Cross, -----
2329	Griffith & Boyd Co.'s Cereal Plant Food, -----	H. M. Smith, Bellefonte, -----
2409	Griffith & Boyd Co.'s Economizer, -----	E. T. Slagle, Paxinos, -----
3435	Griffith & Boyd Co.'s Farmers Potato Manure, -----	J. T. Beckwith, Fort Matilda, -----
2452	Griffith & Boyd Co.'s Farmers Potato Manure, -----	Morris C. Bohn, Bernville, -----
2959	Griffith & Boyd Co.'s Farmers Potato Manure, -----	Dayton Milling Co., Dayton, -----
2665	Griffith & Boyd Co.'s Farmers Potato Manure, -----	Mahoning Hardware & Implement Co., Punxsutawney, -----
3682	Griffith & Boyd Co.'s Farmers Potato Manure, -----	J. W. Mohney, Jackson Center, -----
2417	Griffith & Boyd Co.'s Farmers Queen, -----	P. L. Bergenstock, Pottsgrove, -----
2611	Griffith & Boyd Co.'s Fish Blood and Potash, -----	J. E. Callahan & Sons, Mountoursville, -----
2961	Griffith & Boyd Co.'s Fish Blood and Potash, -----	Dayton Milling Co., Dayton, -----
2269	Griffith & Boyd Co.'s Fish Blood and Potash, -----	John W. Root, Kimberton, -----
2408	Griffith & Boyd Co.'s Fish Blood and Potash, -----	E. A. Slagle, Paxinos, -----
2454	Griffith & Boyd Co.'s Fish and Potash Guano, -----	Morris C. Bohn, Bernville, -----
2706	Griffith & Boyd Co.'s General Crop Grower, -----	Parke M. Cairns, Honeybrook, -----
2419	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture, -----	P. L. Bergenstock, Pottsgrove, -----
2453	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture, -----	Morris C. Bohn, Bernville, -----
3680	Griffith & Boyd Co.'s High Grade Fish and Potash Mixture, -----	J. W. Mohney, Jackson Center, -----
2613	Griffith & Boyd Co.'s Nitro Crop Feeder, -----	J. E. Callahan & Sons, Mountoursville, -----
2488	Griffith & Boyd Co.'s Nitro Crop Feeder, -----	A. T. Hartman, Schaeferstown, -----
2612	Griffith & Boyd Co.'s Peerless Fertilizer, -----	J. E. Callahan & Sons, Mountoursville, -----
2887	Griffith & Boyd Co.'s Peerless Fertilizer, -----	W. C. Moore, Mifflintown, -----
2268	Griffith & Boyd Co.'s Peerless Fertilizer, -----	John W. Root, Kimberton, -----
2705	Griffith & Boyd Co.'s Reliable Crop Grower, -----	Parke M. Cairns, Honeybrook, -----
3451	Griffith & Boyd Co.'s Reliable Crop Grower, -----	John Clay, Palmyra, -----

## FERTILIZERS—Continued.

FERTILIZERS — Continued.														
NITRO-GEN.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Moisture.	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
3.10	2.04	1.65	11.57	8.50	10.85	8.00	0.72	0.50	6.50	5.00	6.50	-----	32 00	2257
6.55	1.67	0.82	9.07	8.50	8.21	8.00	0.86	0.50	4.42	4.00	4.42	-----	27 00	2958
3.35	1.16	-----	10.22	-----	9.40	9.00	0.82	0.50	3.57	3.00	3.57	-----	31 00	3063
4.36	0.59	-----	8.93	-----	8.13	8.00	0.80	0.50	2.22	2.00	2.22	-----	18 75	2338
3.20	0.50	-----	9.04	-----	8.30	8.00	0.74	0.50	2.79	2.00	2.79	-----	26 00	3066
4.67	1.05	-----	8.90	-----	8.10	8.00	0.80	0.50	2.08	2.00	2.08	-----	21 00	2339
3.23	1.07	-----	9.44	-----	8.60	8.00	0.84	0.50	2.19	2.00	2.19	-----	28 00	3065
2.50	0.69	-----	8.93	8.50	8.49	8.00	0.44	0.50	1.43	1.00	1.43	-----	22 50	2746
5.63	1.59	-----	11.08	-----	9.98	10.00	1.10	0.50	4.75	4.00	4.75	-----	26 00	2341
4.35	1.83	-----	11.37	10.50	10.55	10.00	0.82	0.50	4.52	4.00	4.52	-----	32 00	2745
5.32	1.72	1.65	9.46	9.00	8.62	8.00	0.84	1.00	10.01	10.00	0.80	9.21	34 00	2905
8.80	1.02	0.82	9.80	9.00	9.32	8.00	0.48	1.00	*2.89	4.00	2.89	-----	37 29	3729
9.72	0.90	0.82	9.57	9.00	9.05	8.00	0.52	1.00	4.02	4.00	4.02	-----	28 00	2569
9.49	1.54	1.65	9.96	8.00	8.90	7.00	1.06	1.00	4.03	3.00	4.03	-----	25 00	2892
2.85	1.23	0.82	9.75	9.00	8.49	8.00	1.26	1.00	*1.31	2.00	1.31	-----	-----	2483
7.40	0.98	0.82	8.95	9.00	8.09	8.00	0.86	1.00	2.17	2.00	2.17	-----	23 08	2329
5.20	0.64	0.41	6.80	7.00	6.26	6.00	0.54	1.00	1.35	1.00	1.35	-----	23 00	2409
6.45	0.95	0.82	8.80	9.00	8.70	8.00	0.10	1.00	6.16	6.00	6.16	-----	31 25	3435
6.80	0.91	0.82	8.53	9.00	8.01	8.00	0.52	1.00	6.54	6.00	6.54	-----	34 75	2452
4.35	1.21	0.82	9.24	9.00	8.76	8.00	0.48	1.00	6.96	6.00	6.96	-----	27 50	2950
6.20	0.82	0.82	8.02	9.00	*7.72	8.00	0.30	1.00	7.39	6.00	7.39	-----	28 75	2065
7.88	1.26	0.82	10.10	9.00	9.64	8.00	0.46	1.00	6.26	6.00	6.26	-----	30 75	3682
6.43	1.33	0.82	9.64	10.00	8.96	9.00	0.68	1.00	3.85	3.00	3.85	-----	28 60	2417
3.62	1.73	1.44	8.02	8.00	7.48	7.00	0.54	1.00	3.55	2.00	3.55	-----	29 00	2611
7.04	1.85	1.44	8.51	8.00	7.81	7.00	0.70	1.00	2.49	2.00	2.49	-----	29 00	2961
5.31	1.89	1.44	7.61	8.00	7.03	7.00	0.58	1.00	2.58	2.00	2.58	-----	32 00	2269
2.36	1.74	1.44	8.32	8.00	7.58	7.00	0.74	1.00	2.31	2.00	2.31	-----	32 00	2408
8.00	1.75	1.44	9.18	8.00	8.04	7.00	1.14	1.00	3.76	3.00	3.76	-----	31 00	2454
3.59	1.71	1.65	9.24	9.00	8.54	8.00	0.70	1.00	2.36	2.00	2.36	-----	-----	2706
8.67	1.67	1.65	12.99	13.00	12.53	12.00	0.46	1.00	8.59	8.00	8.59	-----	39 25	2419
7.61	1.56	1.65	12.77	13.00	12.29	12.00	0.48	1.00	8.63	8.00	8.63	-----	43 75	2453
10.63	*1.28	1.65	12.91	13.00	12.85	12.00	0.06	1.00	8.48	8.00	8.48	-----	39 75	3680
4.95	*5.86	6.58	6.43	5.00	5.53	4.00	0.90	1.00	2.51	2.00	2.51	-----	60 00	2613
2.85	6.78	6.58	4.86	5.00	4.26	4.00	0.60	1.00	2.12	2.00	2.12	-----	-----	2488
4.05	0.50	0.41	8.95	9.00	8.11	8.00	0.84	1.00	2.97	2.00	2.97	-----	24 00	2612
4.40	0.44	0.41	8.95	9.00	8.07	8.00	0.88	1.00	2.90	2.00	2.90	-----	22 00	2587
7.09	0.47	0.41	8.73	9.00	8.05	8.00	0.68	1.00	2.71	2.00	2.71	-----	27 00	2268
4.80	1.12	0.82	9.38	9.00	8.26	8.00	1.12	1.00	1.38	1.00	1.38	-----	-----	2705
8.30	3.02	0.82	9.15	9.00	8.39	8.00	0.76	1.00	1.43	1.00	1.43	-----	24 15	2451

\*Deficient.



TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From	
2484	Griffith & Boyd Co.'s Reliable Crop Grower.		J. O. Kehres, Red Cross,	-----
3436	Griffith & Boyd Co.'s Royal Potash Guano.		J. T. Beckwith, Port Matilda,	-----
2704	Griffith & Boyd Co.'s Royal Potash Guano.		Parke M. Cairns, Honeybrook,	-----
2342	Griffith & Boyd Co.'s Royal Potash Guano.		C. G. Kleckner, Millmont,	-----
2703	Griffith & Boyd Co.'s Special Guano, ---		Parke M. Cairns, Honeybrook,	-----
2295	Griffith & Boyd Co.'s Special Guano, ---		G. W. Martin & Co., Saltsburg,	-----
3681	Griffith & Boyd Co.'s Special Guano, ---		J. W. Mohny, Jackson Center,	-----
2407	Griffith & Boyd Co.'s Special Peerless Guano.		E. A. Slagle, Paxmos,	-----
2482	Griffith & Boyd Co.'s Spring Crop Grower,		J. O. Kehres, Red Cross,	-----
3111	Griffith & Boyd Co.'s Spring Crop Grower,		A. Robins, Muncy,	-----
3110	Griffith & Boyd Co.'s Stable Manure Substitute.		A. Robins, Muncy,	-----
3449	Griffith & Boyd Co.'s Valley Fertilizer, ---		John Clay, Palmyra,	-----
	S. M. HESS & BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., PHILADELPHIA, PA.			
2833	Ammoniated Super Phosphate, -----		Geo. H. Baker, Valencia,	-----
3196	Ammoniated Super Phosphate, -----		Ford & Patterson, Wellsboro,	-----
2436	Ammoniated Super Phosphate, -----		Moses W. Light, Hummelstown,	-----
2358	Farmers General Fertilizer, -----		Samuel Buffington, Sacramento,	-----
3550	Fish and Potash Manure, -----		Geo. Schweitzer, Leighton,	-----
2359	Keystone Phosphate, -----		Samuel Buffington, Sacramento,	-----
2554	Keystone Phosphate, -----		G. W. Davis, Alum Bank,	-----
2709	Keystone Phosphate, -----		Evan Trago, Elverson,	-----
2458	Potato Crop Grower, -----		Edward M. Fittery, Lebanon,	-----
3549	Potato Crop Grower, -----		Geo. Schweitzer, Leighton,	-----
2326	Potato Crop Grower, -----		H. M. Stamm, Loganton,	-----
2444	Special Compound, -----		J. W. Frantz & Son, Myerstown,	-----
2708	Special Compound, -----		Evan Trago, Elverson,	-----
2834	Wheat, Corn and Grass Manure, -----		Geo. H. Baker, Valencia,	-----
2435	Wheat, Corn and Grass Manure, -----		Moses W. Light, Hummelstown,	-----
2537	Wheat, Corn and Grass Manure, -----		John M. Musser, Mifflintown,	-----
2827	Wheat, Corn and Grass Manure, -----		H. M. Stamm, Loganton,	-----
	P. HOFFMAN & BROTHER, RAUBSVILLE, PA.			
3312	Hoffman's Special Fertilizer, -----		P. Hoffman & Brother, Raubsville,	-----
3313	Hoffman's Truck Fertilizer, -----		P. Hoffman & Brother, Raubsville,	-----
	M. P. HUBBARD & COMPANY, INC., BALTIMORE, MD.			
3714	Hubbard's Big Jim Compound, -----		A. L. Herr & Brother, Quarrville,	-----
3010	Hubbard's Fish Phosphate and Potash, ---		A. A. Geiger, Joanna,	-----
3403	Hubbard's Fish Phosphate and Potash, ---		E. C. Mingle, Liverpool,	-----
2586	Hubbard's Fish Phosphate and Potash, ---		John Rhoades, Millerstown,	-----
3439	Hubbard's Harvest King, -----		A. A. Geiger, Joanna,	-----
3440	Hubbard's Old Economy Best for the Money.		A. A. Geiger, Joanna,	-----
3012	Hubbard's Special Formula, -----		A. A. Geiger, Joanna,	-----
3011	Hubbard's Special Potato and Tomato, ---		A. A. Geiger, Joanna,	-----
	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.			
2652	Hubbard's Climax Phosphate, -----		Kemmerer Hardware Co., Leighton,	-----
2669	Hubbard's Farmers I. X. L., -----		Reynoldsville Hardware Co., Reynoldsville.	-----
3219	Hubbard's Fish and Potash Mixture, -----		W. P. Deemer, Reynoldsville,	-----
2654	Hubbard's Jersey Truckee, -----		Kemmerer Hardware Co., Leighton,	-----

## FERTILIZERS—Continued.

FERTILIZERS—Continued.														
NITRO- GEN.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Moisture.	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as sulfate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
5.35	1.09	0.82	9.32	9.00	8.26	8.00	1.06	1.00	1.97	1.00	1.97	-----	29 25	2484
6.45	1.00	0.82	9.55	9.00	8.97	8.00	0.58	1.00	4.02	4.00	4.02	-----	-----	3436
6.04	0.97	0.82	9.66	9.00	8.56	8.00	1.10	1.00	4.50	4.00	4.50	-----	-----	2704
8.14	1.07	0.82	8.99	9.00	8.25	8.00	0.74	1.00	4.15	4.00	4.15	-----	27 15	2342
6.70	1.66	1.65	9.67	9.00	9.39	8.00	0.28	1.00	5.01	5.00	5.01	-----	32 50	2703
9.73	1.72	1.65	9.06	9.00	8.78	8.00	0.28	1.00	5.00	5.00	5.00	-----	34 00	2295
6.15	1.51	1.65	9.07	9.00	8.83	8.00	0.24	1.00	5.56	5.00	5.56	-----	26 00	3681
4.25	0.67	0.41	8.88	9.00	8.06	8.00	0.82	1.00	1.60	1.00	1.60	-----	-----	2407
4.70	1.93	1.65	7.82	7.50	7.18	6.50	0.64	1.00	4.57	4.50	4.57	-----	32 50	2482
2.85	1.95	1.65	7.83	7.50	7.15	6.50	0.68	1.00	5.00	4.50	5.00	-----	36 50	3111
5.07	*2.22	2.88	7.28	6.25	6.68	5.25	0.60	1.00	4.05	4.00	4.05	-----	-----	3110
4.35	0.99	0.62	7.79	9.00	*7.43	8.00	0.36	1.00	3.51	3.00	3.51	-----	25 05	3449
2.65	1.90	1.65	9.40	9.00	8.46	8.00	0.94	1.00	2.24	2.00	2.24	-----	34 50	2833
4.90	1.99	1.65	9.49	9.00	8.75	8.00	0.74	1.00	2.35	2.00	2.35	-----	30 00	3196
7.00	2.07	1.65	9.27	9.00	8.97	8.00	1.20	1.00	2.09	2.00	2.09	-----	30 00	2436
8.57	1.05	0.82	11.19	11.00	10.11	10.00	1.08	1.00	1.00	1.00	1.00	-----	27 00	2558
3.20	1.82	1.65	9.08	9.00	8.56	8.00	0.52	1.00	3.20	3.00	3.20	-----	-----	3550
8.63	1.04	0.82	9.16	9.00	7.98	8.00	1.18	1.00	1.42	1.00	1.42	-----	26 00	2359
5.85	0.90	0.82	9.86	9.00	8.54	8.00	1.32	1.00	1.29	1.00	1.29	-----	23 00	2554
5.80	1.00	0.82	9.26	9.00	8.10	8.00	1.16	1.00	1.33	1.00	1.33	-----	34 25	2709
6.31	2.14	1.65	8.99	9.00	8.07	8.00	0.92	1.00	4.02	4.00	4.02	-----	-----	2458
2.00	1.81	1.65	9.24	9.00	8.68	8.00	0.56	1.00	4.63	4.00	4.63	-----	30 70	3549
9.95	1.66	1.65	8.93	9.00	8.27	8.00	0.66	1.00	4.01	4.00	4.01	-----	28 00	2326
7.82	0.79	0.82	9.40	9.00	8.06	8.00	1.34	1.00	4.31	4.00	4.31	-----	26 00	2444
6.95	0.91	0.82	9.87	9.00	8.71	8.00	1.16	1.00	4.43	4.00	4.43	-----	30 75	2708
4.05	0.88	0.82	9.16	9.00	8.02	8.00	1.14	1.00	2.24	2.00	2.24	-----	27 00	2834
6.80	1.24	0.82	9.31	9.00	8.05	8.00	1.26	1.00	2.88	2.00	2.88	-----	25 50	2435
7.17	1.13	0.82	9.32	9.00	8.20	8.00	1.12	1.00	2.43	2.00	2.43	-----	25 50	2537
9.43	1.04	0.82	8.89	9.00	8.21	8.00	0.68	1.00	2.69	2.00	2.69	-----	29 50	2327
4.40	1.06	-----	14.36	10.00	10.30	8.00	4.06	2.00	3.81	3.00	3.81	-----	25 60	3312
4.90	1.61	1.65	13.59	10.00	10.15	8.00	3.44	2.00	3.88	3.00	3.88	-----	28 00	3313
3.98	0.40	0.41	7.28	9.00	7.20	8.00	0.08	1.00	1.29	1.00	1.29	-----	19 00	3714
2.98	0.95	0.82	8.05	7.50	7.53	7.00	0.52	0.50	4.32	3.00	4.32	-----	23 00	3010
4.25	0.91	0.82	7.77	7.50	7.51	7.00	0.26	0.50	3.05	3.00	3.05	-----	24 00	3473
3.05	1.01	0.82	7.41	7.50	7.27	7.00	0.14	0.50	3.86	3.00	3.86	-----	23 00	2886
5.10	1.07	0.82	8.83	-----	*8.55	9.00	0.28	1.00	3.82	3.00	3.82	-----	25 00	3439
4.70	0.54	0.41	8.14	8.50	*7.76	8.00	0.38	0.50	2.40	2.00	2.40	-----	23 00	3440
4.80	2.63	2.47	8.88	9.00	8.47	8.00	0.41	1.00	3.31	3.00	3.31	-----	32 00	3012
4.80	1.64	1.65	7.08	-----	*6.76	7.00	0.32	1.00	5.42	5.00	5.42	-----	30 00	3011
5.60	0.90	0.82	10.06	8.00	9.16	7.00	0.90	1.00	4.02	4.00	4.02	-----	29 00	2652
4.15	1.87	1.64	10.89	9.00	9.45	8.00	1.44	1.00	2.25	2.00	2.25	-----	29 50	2666
6.90	0.51	0.41	13.39	9.00	11.07	8.00	2.32	1.00	2.26	2.00	2.26	-----	28 25	3219
7.25	1.82	1.64	9.36	9.00	8.50	8.00	0.86	1.00	10.95	10.00	10.95	-----	38 00	2654

Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From
2670	Hubbard's Jersey Trucker, -----	Reynoldsville Hardware Co., Reynolds- ville.
3171	Hubbard's Jersey Trucker, -----	Edw. W. Rupert, Oxford, -----
3220	Hubbard's Money Maker Fertilizer, -----	W. P. Deemer, Reynoldsville, -----
3172	Hubbard's Money Maker Fertilizer, -----	Edw. W. Rupert, Oxford, -----
2962	Hubbard's Money Maker Fertilizer, -----	H. C. Wilson, Dayton, -----
3278	Hubbard's Noxall Guano, -----	H. L. Orr, Tyrone, -----
2896	Hubbard's Noxall Guano, -----	E. A. Stambaugh, Green Park, -----
3603	Hubbard's 1-8-3 Fertilizer, -----	Geo. Seltzer, Orwigsburg, -----
3280	Hubbard's 1-9-3 Fertilizer, -----	H. L. Orr, Tyrone, -----
	INTERNATIONAL AGRICULTURAL COR- PORATION, BUFFALO FERTILIZER WORKS, BUFFALO, N. Y.	
3676	Buffalo Tip Top, -----	Coulter & Coulter, Grove City, -----
3377	Buffalo Tip Top, -----	J. A. Einhiple, Crainsville, -----
	THE JARECKI CHEMICAL COMPANY, (ARMOUR OWNED), SANDUSKY, OHIO.	
3250	Favorite Grain Grower, -----	Meyer Milling Co., Clearfield, -----
3363	Fish and Potash Truck Manure, -----	F. F. Harrison, Edinboro, -----
3542	Fruit and Root Crop Special, -----	E. A. Beck, Lehighton, -----
3391	Fruit and Root Crop Special, -----	McKean County Cooperative Sheep & Wool Growers Association, Smethport.
3434	High Grade Potato 2-8-10, -----	C. E. Hess, Philipsburg, -----
3399	High Grade Potato 2-8-10, -----	Amundus W. Wotring, Schnecksville, -----
3640	Lake Erie Guano with Phosphate and Potash.	Clark Brothers, Oil City, -----
3366	Lake Erie Guano with Phosphate and Potash.	F. F. Harrison, Edinboro, -----
3364	Number One Formula, -----	F. F. Harrison, Edinboro, -----
3367	Tobacco and Potato Food, -----	F. F. Harrison, Edinboro, -----
	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
3321	Coloneal Potato Manure, -----	Peter H. Kleinhaus, Easton, -----
3574	Keystone Blue Ribbon Potato Manure, -----	P. K. Smith, Nescopock, -----
3337	Keystone General Manure, -----	E. R. Leidich, Riegelsville, -----
3543	Keystone Ideal Potato and Tobacco Ma- nure.	G. B. Cunfer, Lehighton, -----
3575	Keystone Ideal Potato and Tobacco Ma- nure.	P. K. Smith, Nescopock, -----
3338	Keystone Vegetable Guano, -----	E. R. Leidich, Riegelsville, -----
	KEYSTONE GRANGE EXCHANGE, MANS- FIELD, PA.	
2486	Grangers Champion, -----	H. K. Beard, Schaffertown, -----
3205	Grangers Champion, -----	Linn H. Hall, Mansfield, -----
2274	Grangers Champion, -----	Walter Simpson, Marian Center, -----
2556	Grangers Climax, -----	Spring Valley Grange, Fishertown, -----
3223	Grangers Leader, -----	Clyde Burkhouse, Reynoldsville, -----
2549	Grangers Leader, -----	Osterburg Grange, Osterburg, -----
3551	Grangers Prize, -----	Joseph Dreishaeh, Lehighton, -----
2547	Grangers Prize, -----	Osterburg Grange, Osterburg, -----
3577	Grangers Prize, -----	D. J. Williams, Beach Haven, -----
	LANCASTER BONE FERTILIZER COM- PANY, LANCASTER, PA.	
3724	Special Guano, -----	E. B. Fritz & Sons Co., Quarryville, --

## FERTILIZERS—Continued.

NITRO-GEN.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Moisture.	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.35	1.73	1.64	9.77	9.00	8.47	8.00	1.30	1.00	10.00	10.00	10.00	-----	37 00	2670
7.10	*1.41	1.64	10.23	9.00	8.35	8.00	1.88	1.00	*9.55	10.00	9.55	-----	32 00	3171
7.61	1.65	1.64	10.28	9.00	7.84	8.00	2.44	1.00	5.32	5.00	5.32	-----	36 50	3220
7.39	1.97	1.64	9.98	9.00	7.88	8.00	2.10	1.00	*4.12	5.00	4.12	-----	29 00	3172
3.95	1.91	1.64	8.85	9.00	*7.41	8.00	1.44	1.00	6.49	5.00	6.49	-----	35 75	2962
4.75	3.50	3.28	10.27	9.00	8.31	8.00	1.96	1.00	4.50	4.00	4.50	-----	40 00	3278
7.68	*3.07	3.28	10.75	9.00	8.61	8.00	2.14	1.00	4.29	4.00	4.29	-----	33 55	2896
4.05	0.84	0.82	10.64	9.00	9.32	8.00	1.32	1.00	3.44	3.00	3.44	-----	24 60	3603
3.42	1.19	0.82	9.81	10.00	*8.31	9.00	1.50	1.00	3.97	3.00	3.97	-----	28 00	3280
6.23	0.83	0.80	9.26	9.00	8.72	8.00	0.54	1.00	4.75	4.00	4.75	-----	35 00	3676
4.45	1.17	0.80	9.76	9.00	8.46	8.00	1.30	1.00	4.05	4.00	4.05	-----	30 00	3377
3.90	1.03	0.82	8.87	9.00	8.36	8.00	0.51	1.00	1.69	1.00	1.69	-----	28 25	3250
6.29	3.51	3.30	9.80	9.00	9.12	8.00	0.68	1.00	7.55	7.00	7.35	-----	44 00	3362
2.95	1.85	1.65	8.38	9.00	8.08	8.00	0.30	1.00	5.22	5.00	5.22	-----	31 00	3542
3.91	1.60	1.65	8.81	9.00	8.51	8.00	0.30	1.00	5.29	5.00	5.29	-----	27 90	3301
5.90	1.75	1.65	8.06	9.00	7.92	8.00	0.14	1.00	10.32	10.00	10.32	-----	41 75	3434
3.85	1.94	1.65	8.78	9.00	8.48	8.00	0.30	1.00	*9.58	10.00	9.58	-----	3300	3309
3.70	0.98	0.82	13.15	13.00	12.43	12.00	0.72	1.00	1.69	1.00	1.69	-----	33 00	3640
6.36	1.07	0.82	13.22	13.00	12.80	12.00	0.42	1.00	1.29	1.00	1.29	-----	30 00	3366
5.35	1.06	0.82	9.43	9.00	8.71	8.00	0.72	1.00	2.14	2.00	2.14	-----	28 00	3364
8.55	1.01	0.82	8.75	9.00	8.27	8.00	0.48	1.00	*3.76	4.00	3.76	-----	30 00	3367
6.68	4.13	4.10	9.38	-----	8.24	8.00	1.14	1.00	5.52	5.00	5.52	-----	43 50	3321
7.75	3.29	3.28	9.17	9.00	8.07	8.00	1.10	1.00	6.72	6.00	6.72	-----	-----	3574
3.98	1.03	0.82	9.01	9.00	8.09	8.00	0.92	1.00	2.56	2.00	2.56	-----	27 60	3337
3.65	1.79	1.64	8.85	9.00	*7.63	8.00	1.22	1.00	11.82	10.00	11.82	-----	-----	3543
6.10	1.70	1.64	8.85	9.00	*7.71	8.00	1.14	1.00	11.56	10.00	11.56	-----	-----	3575
4.75	1.90	1.64	9.91	9.00	8.19	8.00	1.72	1.00	6.91	6.00	6.91	-----	33 00	2338
4.00	3.26	3.29	8.43	9.00	7.87	8.00	0.56	1.00	7.02	6.00	7.02	-----	-----	2486
9.05	*1.16	3.29	10.80	9.00	10.50	8.00	0.30	1.00	6.29	6.00	6.29	-----	33 75	3205
6.90	3.50	3.29	8.74	9.00	8.02	8.00	0.72	1.00	7.09	6.00	7.09	-----	34 25	2274
5.63	2.11	1.65	9.17	9.00	8.55	8.00	0.62	1.00	10.62	10.00	10.62	-----	31 50	2556
9.45	1.98	1.65	9.53	9.00	8.61	8.00	0.92	1.00	2.21	2.00	2.21	-----	25 75	3223
6.29	1.99	1.65	9.81	8.00	8.73	8.00	1.08	-----	2.38	2.00	2.38	-----	24 30	2549
5.50	1.48	1.65	9.86	9.00	9.52	8.00	0.34	1.00	4.96	5.00	4.96	-----	25 70	3551
5.82	*1.31	1.65	10.23	8.50	9.33	8.00	0.90	0.50	5.17	5.00	5.17	-----	26 40	2547
6.55	1.51	1.65	8.79	8.00	8.29	8.00	0.50	-----	5.95	5.00	5.95	-----	27 90	3577
5.96	0.91	0.82	8.15	9.00	8.09	8.00	0.06	1.00	3.98	4.00	3.98	-----	-----	3724

\*Deficient.



TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From
LANCASTER CHEMICAL COMPANY, LANCASTER, PA.		
3459	No. 2 Dewey Brand, -----	David A. Mannviller, Fleetwood, -----
3710	No. 11 Keystone Brand, -----	R. C. Collins, Quarryville, -----
3461	No. 18 Success Brand, -----	David A. Mannviller, Fleetwood, -----
3460	No. 19 Potato Special, -----	David A. Mannviller, Fleetwood, -----
3328	No. 19 Potato Special, -----	A. C. Shelly, Emaus, -----
LEBANON FERTILIZER WORKS, LEBANON, PA.		
2366	Levan's Crown Jewell 2-8-5, -----	I. E. Artz, Hegins, -----
3401	Levan's Crown Jewell 2-8-5, -----	C. F. Gelbach, Duncannon, -----
2459	Levan's Crown Jewell, 2-8-5, -----	David Houser, Annville, -----
2588	Levan's Crown Jewell, 2-8-5, -----	Solomon & Waltz, Antes Fort, -----
2457	Levan's Farmers Favorite 1-8-2, -----	Amos Kreidler, Ono, -----
2587	Levan's Farmers Favorite 1-8-2, -----	Solomon & Waltz, Antes Fort, -----
2884	Levan's Farmers Favorite 1-8-2, -----	J. H. Stover, Thompsonstown, -----
2368	Levan's Farmers Standard 2-12-2, -----	I. E. Artz, Hegins, -----
3402	Levan's Golden Sheaf 1-8-1, -----	C. F. Gelbach, Duncannon, -----
2639	Levan's Golden Sheaf 1-8-1, -----	Harry Keefer, Pine Grove, -----
2365	Levan's Harvest King 2-7-10, -----	I. E. Artz, Hegins, -----
2891	Levan's Harvest King 2-7-10, -----	B. F. Horting, Newport, -----
2361	Levan's Ideal Potato Manure, -----	I. E. Artz, Hegins, -----
2456	Levan's Ideal Potato Manure, -----	Amos Kreider, Ono, -----
3476	Levan's Ideal Potato Manure, -----	I. G. Williams, Ariel, -----
2481	Levan's Lebanon Special 2-8-2, -----	Samuel Clock, Dornsife, -----
3484	Levan's Lebanon Special 2-8-2, -----	J. W. Cook, Ariel, -----
2789	Levan's Lebanon Special 2-8-2, -----	J. M. Groh, Liekdale, -----
2498	Levan's Special Tobacco Compound, -----	S. S. Eshleman, Elizabethtown, -----
2946	Levan's Special Tobacco Compound, -----	Moses K. Horst, Scotland, -----
2367	Levan's Special Top Dresser 7-6-5, -----	I. E. Artz, Hegins, -----
2637	Levan's Special Top Dresser 7-6-5, -----	Harry Keefer, Pine Grove, -----
2455	Levan's Special Top Dresser 7-6-5, -----	Amos Kreider, Ono, -----
2370	Levan's Truckers Delight 4-8-7, -----	I. E. Artz, Hegins, -----
2489	Levan's Truckers Delight 4-8-7, -----	A. G. Hountz, Myerstown, -----
F. E. LORD, ESPY, PA.		
3580	Columbia County Potato Special, -----	F. E. Lord, Espy, -----
3579	Columbia County Spring Special, -----	F. E. Lord, Espy, -----
THE MAPES FORMULA AND PERUVIAN GUANO CO., NEW YORK, N. Y.		
2682	The Mapes Grain Brand, -----	John W. Root, Kimberton, -----
THE MILLER FERTILIZER CO., BALTIMORE, MD.		
3488	Miller's Ammoniated, -----	J. W. Cook, Ariel, -----
2692	Miller's Ammoniated, -----	Miller T. Harkins, Hickory Hill, -----
3107	Miller's Ammoniated, -----	H. E. Meyers, Muncy, -----
3108	Miller's Clermont, -----	H. E. Meyers, Muncy, -----
2469	Miller's Club Brand, -----	Hartley & Blaine, Turbitville, -----
2768	Miller's Club Brand, -----	G. W. Koser, Biglerville, -----
2970	Miller's Farmer's Profit, -----	A. M. Ashe, Kittanning, -----
2651	Miller's Farmer's Profit, -----	Chas. Froh, Weatherly, -----
3224	Miller's Farmers Profit, -----	Harry Stewart, Strattonville, -----
2468	Miller's Grain Grower, -----	Hartley & Blaine, Turbitville, -----
2607	Miller's Grain Grower, -----	Herman Keeble, Montoursville, -----
2725	Miller's Grain Grower, -----	L. R. Levengood, Pottstown, -----
2816	Miller's Harvest Queen, -----	The Cook Grain, Feed & Supply Co., Dillsburg, -----
2767	Miller's Harvest Queen, -----	G. W. Koser, Biglerville, -----
2908	Miller's Harvest Queen, -----	W. H. Muth & Co., Lititz, -----
2475	Miller's Hustler Phosphate, -----	Hartley & Blaine, Turbitville, -----
2604	Miller's Hustler Phosphate, -----	Herman Keeble, Montoursville, -----
2724	Miller's Hustler Phosphate, -----	L. R. Levengood, Pottstown, -----

## FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
6.25	+*1.02	-----	9.10	-----	8.68	8.00	0.42	1.00	*2.33	4.00	2.33	-----	32 25	3459
5.90	0.88	-----	9.89	-----	8.95	7.00	0.94	1.00	2.00	1.00	2.00	-----	23 00	3710
8.05	0.93	-----	9.54	-----	9.00	8.00	0.54	1.00	*3.38	4.00	3.38	-----	30 25	3461
8.65	+*1.08	-----	9.95	-----	9.61	8.00	0.34	1.00	*8.98	10.00	8.98	-----	39 75	3460
3.95	1.65	-----	10.72	-----	9.20	8.00	1.52	1.00	11.36	10.00	11.36	-----	42 00	3328
5.44	1.76	1.65	8.32	9.00	8.10	8.00	0.22	1.00	5.79	5.00	5.79	-----	27 40	2306
9.54	*1.32	1.65	8.50	9.00	8.42	8.00	0.08	1.00	5.41	5.00	5.41	-----	26 50	3401
4.58	1.83	1.65	8.41	9.00	8.09	8.00	0.32	1.00	5.02	5.00	5.02	-----	30.46	2459
5.10	1.80	1.65	8.19	9.00	7.89	8.00	0.30	1.00	5.33	5.00	5.33	-----	32 00	2588
6.00	1.03	0.82	8.00	9.00	7.88	8.00	0.12	1.00	2.55	2.00	2.55	-----	24 12	2457
6.85	1.09	0.82	8.23	9.00	8.05	8.00	0.18	1.00	2.62	2.00	2.62	-----	24 60	2587
6.40	0.84	0.82	8.94	9.00	8.72	8.00	0.22	1.00	2.97	2.00	2.97	-----	28 50	2884
6.72	1.90	1.65	11.85	13.00	*11.49	12.00	0.36	1.00	2.60	2.00	2.60	-----	27 00	2368
8.97	0.91	0.82	8.33	9.00	8.21	8.00	0.12	1.00	1.43	1.00	1.43	-----	22 00	3402
4.72	1.15	0.82	8.42	9.00	8.26	8.00	0.16	1.00	1.67	1.00	1.67	-----	-----	2639
5.36	1.67	1.65	7.48	8.00	7.30	7.00	0.18	1.00	10.60	10.00	10.60	-----	24 50	2365
7.05	1.49	1.65	7.59	8.00	7.23	7.00	0.36	1.00	11.05	10.00	11.05	-----	31 00	2891
6.27	3.30	3.29	8.23	9.00	8.07	8.00	0.16	1.00	4.05	4.00	4.05	-----	32 00	2361
8.25	3.57	3.29	8.41	9.00	8.27	8.00	0.14	1.00	4.78	4.00	4.78	-----	36 67	2456
6.62	*2.38	3.29	8.81	9.00	8.33	8.00	0.48	1.00	4.82	4.00	4.82	-----	48 00	3476
7.95	1.90	1.65	8.33	9.00	8.03	8.00	0.30	1.00	2.14	2.00	2.14	-----	-----	2481
7.00	1.58	1.65	8.84	9.00	8.68	8.00	0.16	1.00	2.44	2.00	2.44	-----	31 00	3484
4.05	1.73	1.65	8.52	9.00	8.26	8.00	0.26	1.00	3.37	2.00	3.37	-----	29 75	2789
6.55	1.68	1.65	10.31	11.00	9.97	10.00	0.34	1.00	4.36	4.00	4.36	-----	-----	2498
7.82	1.81	1.65	10.59	11.00	10.05	10.00	0.54	1.00	4.35	4.00	4.35	-----	33 00	2946
5.51	5.60	5.76	6.12	7.00	6.04	6.00	0.08	1.00	*4.39	5.00	4.39	-----	40 00	2367
6.82	5.84	5.76	4.87	7.00	*4.81	6.00	0.06	1.00	6.02	5.00	6.02	-----	-----	2637
5.22	5.90	5.76	4.86	7.00	*4.78	6.00	0.08	1.00	6.24	5.00	6.24	-----	46 50	2455
5.40	3.36	3.29	7.91	9.00	*7.69	8.00	0.22	1.00	7.73	7.00	7.73	-----	34 00	2370
5.60	3.23	3.29	8.13	9.00	7.89	8.00	0.24	1.00	7.89	7.00	7.89	-----	-----	2489
5.72	2.00	1.64	12.68	8.50	10.54	8.00	2.14	0.50	10.04	10.00	10.04	-----	35 00	3580
8.75	1.90	1.64	14.94	10.50	12.20	10.00	2.74	0.50	2.73	2.00	2.73	-----	28 00	3579
4.60	1.88	1.65	10.26	10.00	7.96	8.00	2.30	2.00	3.17	2.00	2.50	0.67	35 00	2682
3.20	1.57	1.65	8.99	8.50	8.45	8.00	0.54	0.50	2.16	2.00	2.16	-----	33 00	3488
4.86	1.81	1.65	8.56	8.50	8.08	8.00	0.48	0.50	1.94	2.00	1.94	-----	-----	2692
3.77	*1.44	1.65	9.77	8.50	8.81	8.00	0.96	0.50	2.35	2.00	2.35	-----	30 00	3107
5.45	1.14	0.82	11.90	10.50	10.74	10.00	1.16	0.50	2.20	2.00	2.20	-----	27 50	3108
5.85	0.50	0.41	8.85	8.50	8.13	8.00	0.72	0.50	2.19	2.00	2.19	-----	24 00	2469
4.30	0.58	0.41	8.85	8.50	8.37	8.00	0.48	0.50	2.29	2.00	2.29	-----	25 00	2768
4.48	1.72	1.65	11.14	10.50	10.08	10.00	1.06	0.50	4.55	4.00	4.55	-----	32 00	2970
5.10	1.85	1.65	11.20	10.50	10.12	10.00	1.08	0.50	4.69	4.00	4.69	-----	-----	2651
6.58	1.76	1.65	11.05	10.50	10.03	10.00	1.02	0.50	4.36	4.00	4.36	-----	30 80	3224
4.74	0.92	0.82	8.70	8.50	8.06	8.00	0.64	0.50	4.36	4.00	4.36	-----	27 00	2468
3.56	1.03	0.82	9.39	8.50	8.55	8.00	0.84	0.50	4.09	4.00	4.09	-----	26 00	2607
5.03	1.04	0.82	8.52	8.50	8.18	8.00	0.34	0.50	4.13	4.00	4.13	-----	26 50	2725
4.60	1.08	0.82	10.19	9.50	9.25	9.00	0.94	0.50	3.29	3.00	3.29	-----	23 85	2816
5.85	1.04	0.82	9.93	9.50	9.07	9.00	0.86	0.50	3.41	3.00	3.41	-----	29 00	2767
3.55	0.99	0.82	10.37	9.50	9.55	9.00	0.82	0.50	3.09	3.00	3.09	-----	24 50	2908
4.50	1.21	0.82	9.21	8.50	8.27	8.00	0.94	0.50	1.38	1.00	1.38	-----	25 00	2475
4.00	0.96	0.82	9.77	8.50	8.81	8.00	0.96	0.50	1.57	1.00	1.57	-----	23 50	2604
3.80	1.07	0.82	8.47	8.50	7.89	8.00	0.58	0.50	1.17	1.00	1.17	-----	24 00	2724

+Compared with registered guarantee.

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
3126	Miller's Pimlico, -----	G. W. Bamberger, Etters, -----
2606	Miller's Pimlico, -----	Herman Keeble, Montoursville, -----
2907	Miller's Pimlico, -----	W. H. Muth & Co., Lititz, -----
3485	Miller's Potato and Vegetable Grower, -----	J. W. Cook, Ariel, -----
2694	Miller's Potato and Vegetable Grower, -----	Miller T. Harkins, Hickory Hill, -----
3532	Miller's Potato and Vegetable Grower, -----	Preston Brothers, Canton, -----
2649	Miller's Standard Phosphate, -----	Chas. Eroh, Weatherly, -----
3608	Miller's Unexcelled, -----	E. & G. Brook Land Co., Birdsboro, -----
3106	Miller's Unexcelled, -----	H. E. Meyers, Muncy, -----
3127	Miller's 2-8-5, -----	G. W. Bamberger, Etters, -----
2766	Miller's 2-8-5, -----	G. W. Koser, Biglerville, -----
2726	Miller's 4-8-6, -----	L. E. Levensgood, Pottstown, -----
	G. OBER & SONS CO., BALTIMORE, MD.	
3464	Ober's Farmers Mixture, -----	B. B. Fox, Lyon Station, -----
2627	Ober's Golden Top Wheat and Corn Grower	McConnell Brothers, Hughesville, -----
2754	Ober's Independent Mixture, -----	D. Blocher & Co., Gettysburg, -----
2602	Ober's Independent Mixture, -----	Herman Keeble, Montoursville, -----
2753	Ober's Soluble Ammoniated Super Phosphate of Lime, -----	D. Blocher & Co., Gettysburg, -----
3317	Ober's Soluble Ammoniated Super Phosphate of Lime, -----	John S. Romig, Wind Gap, -----
3306	Ober's Special Plant Food, -----	A. L. Bergstresser, Hellertown, -----
2620	Ober's Special Plant Food, -----	McConnell Brothers, Hughesville, -----
2614	Ober's Special Tobacco and Truck Guano, -----	Wm. Poust, Hughesville, -----
3307	Ober's Stag Guano, -----	A. L. Bergstresser, Hellertown, -----
3463	Ober's Stag Guano, -----	B. B. Fox, Lyon Station, -----
	OWINGS BROTHERS, YORK, PA.	
3132	Owings Brothers Ammoniated Crop Grower, -----	Owings Brothers, York, -----
	OXFORD PACKING WORKS, OXFORD, PA.	
3179	O. P. W. No. 1, -----	Harry Miller, Collamer, -----
3180	O. P. W. No. 2, -----	Harry Miller, Collamer, -----
3181	O. P. W. Special, -----	Harry Miller, Collamer, -----
	OYLER & SPANGLER FERTILIZER WORKS, INC., GETTYSBURG, PA.	
2765	O. & S. Crop Grower, -----	G. W. Koser, Biglerville, -----
3140	O. & S. Crop Grower, -----	M. J. Sheffer, Hanover, -----
2764	O. & S. Excelsoir, -----	G. W. Koser, Biglerville, -----
2771	O. & S. Gettysburg, -----	G. C. Myers, Gardners, -----
3139	O. & S. Golden Sheaf, -----	M. J. Sheffer, Hanover, -----
2516	O. & S. Potato Fertilizer, -----	P. T. Baker, Lewisburg, -----
	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., BALTIMORE, MD.	
2391	Coon Brand Guano, -----	Francis Baker, Everett, -----
2843	Coon Brand Guano, -----	J. J. Kennedy & Sons, Zellenople, -----
2351	Coon Brand Guano, -----	W. H. Snyder, Winfield, -----
3456	Coon Brand Guano, -----	Geo. A. Speck, Lickdale, -----
2756	Patapsco B. B. & P. Brand, -----	E. C. Thomas, Gettysburg, -----
2394	Patapsco General Crop Producer, -----	Francis Baker Everett, -----
3458	Patapsco Guano, -----	Geo. A. Speck, Lickdale, -----
3230	Patapsco Tobacco and Potato Fertilizer, -----	Anthony & Kline, Shelocta, -----
2842	Patapsco Tobacco and Potato Fertilizer, -----	J. J. Kennedy & Sons, Zellenople, -----
2757	Patapsco Tobacco and Potato Fertilizer, -----	E. C. Thomas, Gettysburg, -----
	PATUXENT GUANO COMPANY, BALTIMORE, MD.	
2732	Patuxent Beaver Brand Guano, -----	O. W. Judy, Parkesburg, -----
2429	Patuxent Beaver Brand Guano, -----	H. A. Snyder, Strawberry Ridge, -----
2917	Patuxent Beaver Brand Guano, -----	W. M. Zook & Son, Lititz, -----



## FERTILIZERS—Continued.

NITRO-GEN.			PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
Moisture.	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
3.61	1.91	1.65	8.84	8.50	8.28	8.00	0.56	0.50	*9.69	10.00	9.69	-----	33 50	3126
3.56	1.81	1.65	8.95	8.50	8.37	8.00	0.53	0.50	11.49	10.00	11.49	-----	40 00	3606
3.90	1.76	1.65	8.97	8.50	8.09	8.00	0.88	0.50	10.19	10.00	10.19	-----	30 00	2907
3.00	1.73	-----	10.17	-----	9.39	9.00	0.78	0.50	3.34	3.00	3.34	-----	35 00	3485
4.47	1.85	1.65	9.57	9.50	8.99	9.00	0.58	0.50	3.30	3.00	3.30	-----	-----	2694
3.85	1.75	1.65	9.61	9.50	9.31	9.00	0.30	0.50	*2.76	3.00	2.76	-----	-----	3532
6.33	*2.25	2.47	8.78	8.50	8.44	8.00	0.34	0.50	3.22	3.00	3.22	-----	-----	2649
5.55	1.77	1.65	11.49	10.50	9.99	10.00	1.50	0.50	2.33	2.00	2.33	-----	-----	3008
4.71	1.77	1.65	11.10	10.50	*9.72	10.00	1.38	0.50	2.88	2.00	2.88	-----	32 00	3106
4.54	1.99	-----	9.25	8.50	7.83	8.00	1.42	0.50	5.17	5.00	5.17	-----	29 00	3127
3.40	1.99	1.65	8.87	8.50	8.27	8.00	0.60	0.50	5.69	5.00	5.69	-----	30 00	2766
5.71	3.15	3.30	8.98	8.50	8.62	8.00	0.36	0.50	5.88	6.00	5.88	-----	40 00	2723
9.73	0.93	0.82	10.00	10.00	9.22	9.00	0.78	1.00	1.97	2.00	1.97	-----	22 69	3464
6.00	0.89	0.82	10.92	10.00	10.26	9.00	0.66	1.00	3.25	3.00	3.25	-----	28 00	2627
11.20	1.68	0.82	9.52	9.00	8.84	8.00	0.68	1.00	2.16	1.00	2.16	-----	24 00	2754
7.36	1.16	0.82	9.91	9.00	9.51	8.00	0.40	1.00	1.40	1.00	1.40	-----	26 00	2662
10.00	1.78	1.65	9.27	9.00	8.51	8.00	0.76	1.00	2.57	2.00	2.57	-----	30.00	2753
8.00	1.60	1.65	9.75	9.00	8.99	8.00	0.76	1.00	2.26	2.00	2.26	-----	32 00	3317
7.22	1.76	1.65	10.14	10.00	9.43	9.00	0.66	1.00	5.63	5.00	5.63	-----	36 00	3306
8.69	1.74	1.65	10.40	10.00	9.90	9.00	0.50	1.00	5.88	5.00	5.88	-----	35 00	2626
8.50	1.87	1.65	8.84	9.00	8.30	8.00	0.54	1.00	*9.14	10.00	9.14	-----	30 00	2614
6.50	1.29	0.82	10.38	10.00	10.23	9.00	0.10	1.00	4.31	4.00	4.31	-----	-----	3307
10.34	1.17	0.82	9.87	10.00	9.63	9.00	0.24	1.00	3.73	4.00	3.73	-----	24 69	3463
6.45	1.11	0.82	10.36	-----	9.28	8.00	1.08	1.00	2.46	2.00	2.46	-----	22 00	3132
3.70	1.72	1.64	11.94	9.00	10.08	8.00	1.86	1.00	5.65	5.00	5.65	-----	30 00	3179
6.66	1.85	1.44	12.83	10.00	10.83	9.00	2.00	1.00	2.31	2.00	2.31	-----	28 00	3180
6.30	1.98	1.64	10.00	8.00	8.26	7.00	1.74	1.00	10.89	10.00	10.89	-----	32.50	3181
2.85	0.96	0.82	11.06	9.50	10.14	9.00	0.92	0.50	3.28	3.00	3.28	-----	26 00	2765
5.79	1.15	0.82	9.68	9.50	8.96	9.00	0.72	0.50	3.14	3.00	3.14	-----	25 00	3140
2.85	1.90	1.65	9.52	8.50	8.20	8.00	1.32	0.50	4.37	4.00	4.57	-----	29 60	2764
6.05	1.69	1.65	8.84	8.50	8.20	8.00	0.64	0.50	2.20	2.00	2.20	-----	25 00	2771
6.05	1.61	0.82	8.75	8.50	8.07	8.00	0.68	0.50	1.55	1.00	1.55	-----	22 50	3139
2.75	3.63	3.29	9.75	8.50	8.75	8.00	1.00	0.50	7.02	7.00	7.02	-----	45 00	2516
10.87	1.02	0.82	10.59	10.00	9.83	9.00	0.76	1.00	2.10	2.00	2.10	-----	15 00	2291
4.40	0.92	0.82	10.84	10.00	9.92	9.00	0.92	1.00	2.46	2.00	2.46	-----	28 00	2843
10.90	1.02	0.82	10.15	10.00	9.29	9.00	0.86	1.00	2.36	2.00	2.36	-----	27 00	2351
9.75	1.13	0.82	9.89	10.00	9.19	9.00	0.70	1.00	2.71	2.00	2.71	-----	31 00	3453
8.31	1.05	0.82	9.45	9.00	8.17	8.00	1.28	1.00	1.57	1.00	1.57	-----	-----	2756
7.03	0.96	0.82	8.48	8.00	7.58	7.00	0.90	1.00	1.05	1.00	1.05	-----	24 00	2594
8.85	1.68	1.65	9.10	9.00	8.16	8.00	0.94	1.00	2.26	2.00	2.26	-----	32 00	3458
9.82	*1.36	1.65	9.06	9.00	8.72	8.00	0.34	1.00	4.33	4.00	4.33	-----	35 00	2280
2.75	1.72	1.65	9.64	9.00	8.72	8.00	0.92	1.00	4.40	4.00	4.40	-----	34 00	2843
8.80	1.71	1.65	9.03	9.00	8.09	8.00	0.94	1.00	4.16	4.00	4.16	-----	-----	2757
3.26	1.11	0.82	9.71	10.00	*7.68	9.00	2.03	1.00	3.95	3.00	3.95	-----	25 85	2732
5.56	1.10	0.82	10.33	10.00	8.85	9.00	1.48	1.00	3.24	3.00	3.24	-----	24 75	2429
3.38	0.94	0.82	11.03	10.00	9.97	9.00	1.06	1.00	3.20	3.00	3.20	-----	26 50	2917

\*Deficient.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From
2817	Patuxent Common Fertilizer, -----	Dillsburg Grain & Milling Co., Dillsburg,
2736	Patuxent Common Fertilizer, -----	O. W. Judy, Parkesburg, -----
2916	Patuxent Common Fertilizer, -----	W. M. Zook & Son, Lititz, -----
2898	Patuxent Crop Producer, -----	J. B. Lightner, Loysville, -----
2430	Patuxent Fish Guano, -----	H. A. Snyder, Strawberry Ridge, -----
3492	Patuxent Grain and Clover Producer, ---	F. M. Bitler, Danville, -----
3494	Patuxent Guano, -----	F. M. Bitler, Danville, -----
2735	Patuxent Tip Top Fertilizer, -----	C. W. Judy, Parkesburg, -----
2915	Patuxent Tip Top Fertilizer, -----	W. M. Zook & Son, Lititz, -----
3493	Tom O'Neill's Golden Harvest, -----	F. M. Bitler, Danville, -----
3400	Tom O'Neill's Golden Harvest, -----	Chas. Bruner, New Bloomfield, -----
2734	Tom O'Neill's Golden Harvest, -----	C. W. Judy, Parkesburg, -----
PENNSYLVANIA FARMERS COOPERATIVE FEDERATION, INC., HARRISBURG, PA.		
2545	P. F. C. F. 1-8-4, -----	Bedford County Farmers Cooperative Association, Everett.
3560	P. F. C. F. 1-8-4, -----	L. D. Zehner, Tamaqua, -----
3559	P. F. C. F. 2-8-2, -----	L. D. Zehner, Tamaqua, -----
2403	P. F. C. F. 2-8-10, -----	Bedford County Farmers Cooperative Association, Everett.
2535	P. F. C. F. 2-8-10, -----	Millin County Farmers Cooperative Association, Lewistown.
2634	P. F. C. F. 2-8-10, -----	L. D. Zehner, Tamaqua, -----
3670	P. F. C. F. 4-8-4, -----	Mark McFarland, Middlesex, -----
2522	P. F. C. F. 4-8-4, -----	J. M. Stroup, Lewistown, -----
2636	P. F. C. F. 4-8-4, -----	L. D. Zehner, Tamaqua, -----
2544	P. F. C. F. 4-8-6, -----	Bedford County Farmers Cooperative Association, Everett.
2372	P. F. C. F. 4-8-6, -----	L. D. Zehner, Tamaqua, -----
2635	P. F. C. F. 7-6-5, -----	L. D. Zehner, Tamaqua, -----
PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.		
2626	Piedmont Ammoniated Fertilizer, -----	McConnell Brothers, Hughesville, -----
3611	Piedmont Harvest Queen, -----	Allen Baddorf, Pine Grove, -----
3513	Piedmont Harvest Queen, -----	E. H. Johnston, Ulster, -----
3705	Piedmont Harvest Queen, -----	Millersville Supply Co., Millersville, ---
2411	Piedmont Harvest Queen, -----	Wolfe & Huffman, Watsonstown, -----
3198	Piedmont High Grade Vegetable Grower,	Farmers Feed Store, Wellsboro, -----
2618	Piedmont High Grade Vegetable Grower,	McConnell Brothers, Hughesville, -----
3203	Piedmont High Grade Vegetable Grower,	Charles McDowell, Mansfield, -----
2901	Piedmont Ideal Wheat and Corn, -----	Hershey Department Store, Hershey, ---
2625	Piedmont Insula Fish Guano, -----	McConnell Brothers, Hughesville, -----
2889	Piedmont Perfection Guano, -----	A. H. Ulsh Sons, Millerstown, -----
2952	Piedmont Perfection Guano, -----	Walker, Diehl & Walker, Chambersburg.
2414	Piedmont Perfection Guano, -----	Wolfe & Huffman, Watsonstown, -----
3202	Piedmont Plow Brand, -----	Charles McDowell, Mansfield, -----
3512	Piedmont Standard, -----	E. H. Johnston, Ulster, -----
PITTSBURGH PROVISION & PACKING CO., PITTSBURGH, PA.		
3649	Keystone Fertilizer, -----	W. J. Gilson, Titusville, -----
RASIN-MONUMENTAL COMPANY, BALTIMORE, MD.		
3616	Rasin's Best Potato Formula, -----	H. H. Button, Middlebury Centre, -----
3354	Rasin's Best Potato Formula, -----	Leonard Ritter, St. Marys, -----
3355	Rasin's Capital Crop Compound, -----	Leonard Ritter, St. Marys, -----
3297	Rasin's Capital Grain and Clover Compound.	H. K. Mohr, Quakertown, -----
3588	Rasin's Fish and Potash Mixture, -----	H. B. Low & Son, Orangeville, -----
3694	Rasin's National Crop Compound, -----	Albright & Schwoyer, Kempton, -----
2877	Rasin's National Crop Compound, -----	Walter Book, Port Royal, -----
3000	Rasin's Royal Fish and Potash Mixture,	C. H. Angstadt, Oley, -----

## FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
7.50	1.64	1.64	10.87	9.00	8.49	8.00	2.38	1.00	*4.70	5.00	4.70	-----	29 75	2817
4.00	1.94	1.64	9.26	9.00	8.39	8.00	0.86	1.00	6.22	5.00	6.22	-----	30 75	2736
3.45	1.65	1.64	9.98	9.00	7.98	8.00	2.00	1.00	6.22	5.00	6.22	-----	31 75	2916
3.95	0.82	0.82	11.75	8.00	10.39	7.00	1.36	1.00	1.45	1.00	1.45	-----	16 25	2898
4.65	1.16	0.82	11.53	9.00	9.67	8.00	1.86	1.00	2.29	2.00	2.29	-----	22 50	2430
6.05	1.01	0.82	10.38	9.00	9.48	8.00	0.90	1.00	4.00	4.00	4.00	-----	25 45	3492
5.80	1.66	1.64	10.80	9.00	8.64	8.00	2.16	1.00	2.45	2.00	2.45	-----	27 45	3494
4.30	1.68	1.64	8.69	9.00	8.13	8.00	0.56	1.00	11.33	10.00	11.33	-----	35 25	2735
6.20	1.78	1.64	9.45	9.00	*7.55	8.00	1.90	1.00	10.48	10.00	10.48	-----	36 00	2915
5.55	1.02	0.82	11.19	10.00	9.03	9.00	2.16	1.00	2.47	2.00	2.47	-----	24 45	3493
2.30	1.00	0.82	11.74	10.00	9.84	9.00	1.90	1.00	2.46	2.00	2.46	-----	25 00	3400
3.85	1.26	0.82	12.09	10.00	10.51	9.00	1.58	1.00	2.39	2.00	2.39	-----	24 85	2734
5.15	2.01	0.82	8.64	9.00	8.06	8.00	0.58	1.00	4.78	4.00	4.78	-----	25 50	2545
5.25	1.27	0.82	9.13	9.00	9.01	8.00	0.12	1.00	4.61	4.00	4.61	-----	-----	3560
6.00	1.92	1.65	9.04	9.00	8.48	8.00	0.56	1.00	2.63	2.00	2.63	-----	-----	3559
6.57	1.61	1.65	9.13	9.00	8.67	8.00	0.46	1.00	11.17	10.00	11.17	-----	-----	2403
5.15	1.74	1.65	9.02	9.00	8.46	8.00	0.56	1.00	12.84	10.00	12.84	-----	30 60	2535
7.83	1.80	1.65	9.38	9.00	9.24	8.00	0.14	1.00	10.66	10.00	10.66	-----	29 55	2634
5.70	*2.63	3.29	9.61	9.00	8.91	8.00	0.70	1.00	*3.46	4.00	3.46	-----	-----	3670
8.27	*3.03	3.29	9.46	9.00	8.60	8.00	0.86	1.00	4.40	4.00	4.40	-----	32 50	2522
9.27	3.22	3.29	9.13	9.00	8.57	8.00	0.56	1.00	4.53	4.00	4.53	-----	-----	2636
5.25	3.63	3.28	8.78	9.00	8.20	8.00	0.58	1.00	7.37	6.00	7.37	-----	36 00	2544
7.50	3.41	3.29	9.54	9.00	8.66	8.00	0.88	1.00	6.33	6.00	6.33	-----	33 00	2372
6.73	*4.85	5.76	8.04	6.50	7.58	6.00	0.46	0.50	*4.45	5.00	4.45	-----	39 50	2635
5.90	0.84	0.82	10.33	10.00	9.55	9.00	0.78	1.00	3.47	3.00	3.47	-----	28 00	2626
6.04	0.95	0.82	9.59	9.00	8.91	8.00	0.68	1.00	2.17	2.00	2.17	-----	27 00	3611
4.20	1.13	0.82	9.21	9.00	8.53	8.00	0.68	1.00	2.49	2.00	2.49	-----	28 00	3513
5.80	0.82	0.82	11.05	9.00	10.09	8.00	0.96	1.00	2.02	2.00	2.02	-----	24 00	3705
6.01	1.16	0.82	9.40	9.00	8.84	8.00	0.56	1.00	2.26	2.00	2.26	-----	22 15	2411
7.00	1.64	1.65	8.88	9.00	8.32	8.00	0.56	1.00	*7.93	10.00	7.93	-----	38 00	3198
6.91	1.86	1.65	8.89	9.00	8.37	8.00	0.52	1.00	10.55	10.00	10.55	-----	38 00	2618
7.80	*1.39	1.65	9.16	9.00	9.04	8.00	0.12	1.00	10.71	10.00	10.71	-----	35 00	3203
8.35	*1.34	1.65	9.90	11.00	*9.34	10.00	0.56	1.00	2.44	2.00	2.44	-----	33 00	2901
6.15	0.59	0.42	9.78	7.50	9.22	7.00	0.56	0.50	3.22	2.00	3.22	-----	24 00	2625
7.98	1.53	1.65	9.48	9.00	9.20	8.00	0.28	1.00	5.00	5.00	5.00	-----	30 00	2889
6.33	1.66	1.65	8.66	9.00	7.82	8.00	0.84	1.00	6.56	5.00	6.56	-----	32 00	2952
6.22	2.11	1.65	8.18	9.00	*7.74	8.00	0.44	1.00	5.67	5.00	5.67	-----	27 55	2414
8.50	2.05	1.65	9.11	9.00	8.37	8.00	0.74	1.00	2.76	2.00	2.76	-----	30 00	3202
5.10	1.93	1.65	8.92	9.00	8.20	8.00	0.72	1.00	3.89	3.00	3.89	-----	32 00	3512
2.54	1.90	1.43	11.58	11.00	*8.04	9.00	3.54	2.00	1.22	1.00	1.22	-----	42 00	3649
4.80	3.24	3.29	8.87	9.00	8.08	8.00	0.79	1.00	6.96	6.00	6.96	-----	39 00	3616
3.15	*3.03	3.29	10.22	9.00	9.30	8.00	0.92	1.00	6.18	6.00	6.18	-----	44 00	3374
3.75	1.08	0.82	10.61	10.00	9.45	9.00	1.16	1.00	3.45	3.00	3.45	-----	30 00	3375
4.21	*1.21	1.65	12.96	13.00	*11.50	12.00	1.46	1.00	2.45	2.00	2.45	-----	35 00	3297
6.70	1.99	1.65	11.16	9.00	9.04	8.00	2.12	1.00	3.19	3.00	3.19	-----	29 50	3588
5.56	0.86	0.82	9.45	9.00	8.61	8.00	0.84	1.00	4.67	4.00	4.67	-----	22 50	3694
6.41	1.09	0.82	10.36	9.00	8.82	8.00	1.54	1.00	4.74	4.00	4.74	-----	27 00	2877
5.95	1.82	1.65	10.38	9.00	8.42	8.00	1.96	1.00	3.17	3.00	3.17	-----	32 00	3000

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
3274	Rasin's Royal Fish and Potash Mixture, -----	Louis Sherer, South Fork, -----
2999	Rasin's United Grain Grower, -----	C. H. Angstadt, Oley, -----
2876	Rasin's Vegetable Special, -----	Walter Book, Port Royal, -----
3617	Rasin's Vegetable Special, -----	H. H. Button, Middlebury Center, -----
3193	Rasin's Vegetable Special, -----	Roy Dunham, Wellsboro, -----
3296	Rasin's Wheat Corn and Oats Mixture, -----	H. K. Mohr, Quakertown, -----
2460	Rasin's Wheat Corn and Oats Mixture, -----	H. A. Snyder, Strawberry Ridge, -----
3635	William Penn Crop Grower, -----	S. F. McCluray, Middlebury Center, -----
3242	William Penn Crop Grower, -----	Scott Smith, Artemas, -----
READING BONE FERTILIZER CO., READING, PA.		
2257	Blood Meat and Potash Mixture, -----	Great Valley Mills Co., Exton, -----
3002	Blood Meat and Potash Mixture, -----	J. D. Moyer, Bechtelsville, -----
3003	Farmers Tankage and Potash, -----	J. D. Moyer, Bechtelsville, -----
2343	Reading All Crop Special, -----	H. A. Miller, Mifflinburg, -----
3446	Reading All Crop Special, -----	Elem G. Stoltzfus, Elverson, -----
2263	Reading One-Eight-Five, -----	Great Valley Mills Co., Exton, -----
2491	Reading One-Eight-Five, -----	Palmyra Quarry Farms, Palmyra, -----
3452	Reading 2-8-10, -----	A. M. Brandt, Campbelltown, -----
2880	Reading 4-8-6, -----	Juniata Pomona Grange, Mifflintown, -----
3539	Reading 4-8-6, -----	C. Lewis, Montrose, -----
3445	Reading 4-8-6, -----	Elem C. Stoltzfus, Elverson, -----
READING CHEMICAL COMPANY, READ- ING, PA.		
2307	Farmers Choice, -----	Charles Frazer, Mill Hall, -----
3685	Old Standard, -----	C. J. Bennecoff, Weisenburg, -----
2643	Old Standard, -----	J. M. Lucas, Valley View, -----
3383	Peerless Mixture, -----	Dallas Brooks, Tidioute, -----
3684	Potato and Truck Special, -----	C. J. Bennecoff, Weisenburg, -----
ROBERT A. REICHARD, ALLENTOWN, PA.		
3565	Lehigh Potato Manure, -----	Herbert Young, Conyngham, -----
3318	Reichard's Mortgage Lifter, -----	John S. Romig, Wind Gap, -----
3308	Reichard's Peerless Phosphate, -----	R. W. Grammes, Orefield, -----
3294	Reichard's Peerless Phosphate, -----	Robert A. Reichard, Allentown, -----
2646	Reichard's Special Manure, -----	H. E. Buchman, East Mauch Chunk, -----
F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.		
3412	Royster's Banner Guano, -----	John Dale, State College, -----
3019	Royster's Banner Guano, -----	W. C. Headly, Waymarth, -----
2267	Royster's Banner Guano, -----	Harvey L. Moses, Chester Springs, -----
2730	Royster's Bully Guano, -----	Wm. H. Cook, Dowingtown, -----
3017	Royster's Bully Guano, -----	W. C. Headly, Waymarth, -----
3437	Royster's Bully Guano, -----	H. K. Mattern, Julian, -----
3655	Royster's Bully Guano, -----	C. M. Veiley Sagertown, -----
3129	Royster's Cuckoo Guano, -----	G. W. Bamberger, Etters, -----
2302	Royster's Cuckoo Guano, -----	Glossner Implement Co., Lock Haven, -----
2349	Royster's Cuckoo Guano, -----	R. C. Meek Estate, Allenwood, -----
2972	Royster's Dreadnaught Guano, -----	Chas. Claypool, Kittanning, -----
3505	Royster's Dreadnaught Guano, -----	Dayton Milling Co., Towanda, -----
3471	Royster's Dreadnaught Guano, -----	J. A. Gardner, Moscow, -----
3007	Royster's Economy Guano, -----	John P. Fisher, Douglassville, -----
2256	Royster's Economy Guano, -----	Great Valley Mills Co., Exton, -----
3188	Royster's Economy Guano, -----	W. H. Schneider, Lloyd, -----
3316	Royster's Economy Guano, -----	Charles Wilhelm, Bethlehem, -----
3191	Royster's Fish Flesh and Fowl, -----	Roy Dunham, Wellsboro, -----
2254	Royster's Fish Flesh and Fowl, -----	Great Valley Mills Co., Exton, -----
3358	Royster's Fish Flesh and Fowl, -----	Smith Brothers, Inc., Bradford, -----
3470	Royster's Pennsylvania Potato Guano, -----	J. A. Gardner, Moscow, -----
2304	Royster's Pennsylvania Potato Guano, -----	Glossner Implement Co., Lock Haven, -----
3315	Royster's Pennsylvania Potato Guano, -----	Charles Wilhelm, Bethlehem, -----



## FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
6.37	1.83	1.65	10.96	9.00	8.33	8.00	2.63	1.00	3.56	3.00	3.56	-----	30 00	3274
7.00	1.11	0.82	9.69	9.00	8.41	8.00	1.28	1.00	2.33	2.00	2.33	-----	28 00	2999
3.90	1.96	1.65	9.34	9.00	8.26	8.00	1.08	1.00	10.77	10.00	10.77	-----	36 00	2876
3.92	1.87	1.65	9.29	9.00	7.85	8.00	1.44	1.00	11.74	10.00	11.74	-----	39 00	3617
4.55	1.79	1.65	9.21	9.00	8.31	8.00	0.90	1.00	11.12	10.00	11.12	-----	33 50	3193
3.40	0.67	0.41	10.04	9.00	9.02	8.00	1.02	1.00	2.02	2.00	2.02	-----	27 00	3296
4.00	0.58	0.41	9.17	9.00	8.09	8.00	1.03	1.00	2.13	2.00	2.13	-----	20 00	2460
6.70	1.16	0.82	10.33	9.00	8.37	8.00	1.96	1.00	1.57	1.00	1.57	-----	27 00	3635
6.75	1.03	0.82	9.30	9.00	8.24	8.00	1.06	1.00	1.00	1.00	1.00	-----	22 00	3242
7.51	2.01	1.64	8.84	9.00	8.08	8.00	0.76	1.00	3.97	4.00	3.97	-----	32 50	2257
8.87	1.76	1.64	9.61	9.00	8.33	8.00	1.28	1.00	4.62	4.00	4.62	-----	35 00	3002
8.14	0.92	0.82	12.34	11.00	11.44	10.00	0.90	1.00	2.05	2.00	2.05	-----	30 00	3003
8.96	1.90	1.64	11.43	11.00	10.65	10.00	0.78	1.00	6.04	6.00	6.04	-----	36.75	2343
7.65	1.69	1.64	11.42	11.00	10.76	10.00	0.66	1.00	5.93	6.00	5.93	-----	35 00	3446
9.55	1.09	0.82	8.44	9.00	8.08	8.00	0.36	1.00	5.09	5.00	5.09	-----	30 00	2263
7.30	1.18	0.82	8.55	9.00	8.17	8.00	0.38	1.00	5.07	5.00	5.07	-----	-----	2491
7.65	1.62	1.64	8.60	9.00	8.08	8.00	0.52	1.00	10.01	10.00	10.01	-----	38 00	3452
7.80	*3.08	3.29	10.05	9.00	8.75	8.00	1.30	1.00	6.44	6.00	6.44	-----	35 25	2880
5.98	3.23	3.29	9.64	9.00	8.46	8.00	1.18	1.00	6.13	6.00	6.13	-----	-----	3539
7.35	3.18	3.29	9.85	9.00	9.51	8.00	0.34	1.00	*5.01	6.00	5.01	-----	41 00	3445
7.65	1.01	0.82	10.50	10.00	9.70	9.00	0.80	1.00	2.88	3.00	2.88	-----	27 00	2307
5.45	1.78	1.65	8.83	9.00	8.47	8.00	0.36	1.00	2.14	2.00	2.14	-----	-----	3685
5.30	2.07	1.65	8.95	9.00	8.63	8.00	0.32	1.00	2.11	2.00	2.11	-----	-----	2643
5.40	1.75	1.64	8.85	9.00	8.15	8.00	0.70	1.00	4.21	4.00	4.21	-----	36 00	3383
5.46	1.50	1.65	9.38	9.00	9.08	8.00	0.30	1.00	10.02	10.00	10.02	-----	-----	3684
1.25	1.69	1.64	8.85	-----	8.15	8.00	0.70	1.00	10.45	10.00	10.45	-----	34 50	3565
2.05	1.63	1.64	8.78	-----	8.36	8.00	0.42	1.00	4.12	4.00	4.12	-----	32 00	3318
4.05	1.04	0.82	10.60	-----	9.26	8.00	1.34	1.00	1.98	2.00	1.98	-----	25 50	3308
3.10	1.09	0.82	9.48	-----	8.60	8.00	0.88	1.00	2.02	2.00	2.02	-----	23 50	3294
5.73	3.39	3.28	8.33	7.00	6.81	6.00	1.52	1.00	2.54	2.00	2.54	-----	45 00	2646
3.19	1.63	1.65	9.36	8.50	8.23	8.00	1.08	0.50	11.18	10.00	11.18	-----	16 40	3412
2.38	1.86	1.65	9.07	8.50	8.08	8.00	0.99	*0.50	10.86	10.00	10.86	-----	39 00	3619
7.69	1.77	1.65	8.70	8.50	8.18	8.00	0.52	0.50	10.28	10.00	9.50	0.78	41 00	2267
4.00	2.03	1.65	9.03	8.50	8.35	8.00	0.68	0.50	5.05	5.00	5.05	-----	33 50	2730
3.38	2.00	1.65	9.25	8.50	8.29	8.00	0.96	0.50	5.06	5.00	5.06	-----	34 00	3017
6.65	1.63	1.65	9.75	8.50	8.19	8.00	1.56	0.50	5.73	5.00	5.73	-----	29 75	3437
3.80	1.53	1.65	10.33	8.50	9.03	8.00	1.30	0.50	5.15	5.00	5.15	-----	34 06	3655
8.47	1.43	0.82	9.45	8.50	8.13	8.00	1.32	0.50	1.65	1.00	1.65	-----	21 50	3129
9.95	1.16	0.82	9.17	8.50	7.99	8.00	1.18	0.50	1.15	1.00	1.15	-----	27 75	2302
10.37	1.13	0.82	9.22	8.50	8.08	8.00	1.14	0.50	1.04	1.00	1.04	-----	24 00	2349
3.12	1.88	1.65	9.55	8.50	8.03	8.00	1.52	0.50	2.23	2.00	2.23	-----	27 00	2972
2.65	1.47	1.65	9.80	8.50	8.34	8.00	1.46	0.50	2.12	2.00	2.12	-----	27 50	3505
2.85	1.80	1.65	10.56	8.50	8.82	8.00	1.74	0.50	2.55	2.00	2.55	-----	29 00	3471
3.15	1.19	0.82	10.03	8.50	8.53	8.00	1.50	0.50	2.57	2.00	2.57	-----	29 00	3007
5.91	0.95	0.82	8.83	8.50	8.05	8.00	0.78	0.50	2.00	2.00	2.00	-----	25 56	2256
4.12	0.82	0.82	9.08	8.50	7.92	8.00	1.16	0.50	2.31	2.00	2.31	-----	26 50	3188
1.65	1.08	0.82	8.78	8.50	7.90	8.00	0.88	0.50	2.15	2.00	2.15	-----	24 00	3316
6.41	1.88	1.65	9.40	8.50	8.14	8.00	1.26	0.50	3.31	3.00	3.31	-----	29 60	3191
7.27	1.84	1.65	8.88	8.50	8.29	8.00	0.59	0.50	2.94	3.00	2.94	-----	30 00	2254
1.90	2.07	1.65	9.55	8.50	8.25	8.00	1.30	0.50	3.21	3.00	3.21	-----	38 00	3558
1.60	1.81	1.65	7.09	6.50	6.37	6.00	0.72	0.50	3.51	3.00	3.51	-----	30 00	3470
5.43	1.78	1.65	7.18	6.50	6.32	6.00	0.86	0.50	2.81	3.00	2.81	-----	33 00	2304
3.80	1.82	1.65	8.93	6.50	7.99	6.00	0.94	0.50	3.27	3.00	3.27	-----	27 00	3315

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From
2632	Royster's Special Trucker, -----	H. Chaapels, Williamsport, -----
2773	Royster's Special Trucker, -----	W. H. Dreibelbis, Shoemaker'sville, -----
3515	Royster's Valley Tobacco Formula, -----	Dayton Milling Co., Towanda, -----
2772	Royster's Vim Guano, -----	W. H. Dreibelbis, Shoemaker'sville, -----
3018	Royster's Vim Guano, -----	W. C. Headly, Waymarth, -----
	SCHALL-SHELDON FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., BUFFALO, N. Y.	
3395	Grass, Wheat and Oats, -----	Bradford Supply Co., Bradford, -----
<del>3394</del>	Royal, -----	Bradford Supply Co., Bradford, -----
3393	Schall's Corn and Potato, -----	Bradford Supply Co., Bradford, -----
	THE SCOTT FERTILIZER COMPANY, INC., ELKTON, MD.	
3174	Scott's Pennsylvania Potato Grower, -----	Edw. W. Rupert, Oxford, -----
3173	Scott's Potato Grower, -----	Edw. W. Rupert, Oxford, -----
3690	Scott's Special Grain Grower, -----	E. D. Greenawalt, Albany, -----
3689	Scott's Standard, -----	E. D. Greenawalt, Albany, -----
3176	Scott's Sure Growth Super Phosphate, -----	Edw. W. Rupert, Oxford, -----
3175	Scott's Victory Brand, -----	Edw. W. Rupert, Oxford, -----
	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.	
3599	Fish, Tankage and Potash Phosphate, -----	L. A. Steigerwalt, Andreas, -----
3442	Swift-Sure Guano Tomatoes Truck and Corn, -----	Stephen M. Stoltzfus, Morgantown, -----
2241	Swift-Sure Guano Tomatoes Truck and Corn, -----	Yeakel & Huzzard, Norristown, -----
2994	Swift-Sure Oats, -----	John P. Fisher, Boyertown, -----
3045	Swift-Sure 10% Potato Special, -----	W. E. Ervin, Somerton, -----
2240	Swift-Sure Super Phosphate for General Use, -----	Yeakel & Huzzard, Norristown, -----
3046	Swift-Sure Super Phosphate For Potatoes No. 1, -----	W. E. Ervin, Somerton, -----
2995	Swift-Sure Super Phosphate Sweet Potato, -----	John P. Fisher, Boyertown, -----
	SWACK FERTILIZER WORKS, DUBOIS, PA.	
2839	Swack's General Crop Grower, -----	H. F. Gelbaugh, Evans City, -----
2838	Swack's Grain Grower, -----	H. F. Gelbaugh, Evans City, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
3672	Swift's Champion Wheat and Corn Grower, -----	C. M. Amon, Transfer, -----
2963	Swift's Champion Wheat and Corn Grower, -----	Lancaster County Cooperative Potato Growers Association, Lancaster, -----
2697	Swift's Champion Wheat and Corn Grower, -----	Jackson W. Montgomery, Honeybrook, -----
2790	Swift's Diamond A Fertilizer, -----	Lancaster County Cooperative Potato Growers Association, Lancaster, -----
2698	Swift's Diamond A Fertilizer, -----	Jackson W. Montgomery, Honeybrook, -----
3038	Swift's Diamond B Fertilizer, -----	Grookett Brothers, Foxchase, -----
3752	Swift's Golden Grain Grower, -----	Harvey Hershber, Meyersdale, -----
2987	Swift's Golden Grain Grower, -----	Keystone Tractor & Implement Co., Harrisburg, -----
3163	Swift's Harrison Formula No. 4, 4-10-4, -----	Adam Schmehl, North Wales, -----
2793	Swift's High Grade Potato Fertilizer, -----	Lancaster County Cooperative Potato Growers Association, Lancaster, -----
3034	Swift's High Grade Potato Fertilizer, -----	F. L. Thompson, Clarke Summit, -----
2792	Swift's Hummer, -----	Lancaster County Cooperative Potato Growers Association, Lancaster, -----
3162	Swift's Market Garden Manure, -----	Adam Schmehl, North Wales, -----
3639	Swift's Monmouth Co. Potato Manure, -----	Grookett Brothers, Foxchase, -----
3041	Swift's New York Corn Special, -----	Grookett Brothers, Foxchase, -----
2980	Swift's One, Six and Ten, -----	Ephraim B. Bomgardner, Lebanon, -----

## FERTILIZERS—Continued.

FERTILIZERS.—Continued.														
Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
6.02	3.71	3.29	9.72	8.50	8.42	8.00	1.30	0.50	5.30	5.00	5.30	-----	50 00	2682
4.50	*2.90	3.29	10.14	8.50	9.18	8.00	0.96	0.50	4.96	5.00	4.96	-----	37 75	2773
4.00	4.42	4.11	5.26	4.50	4.92	4.00	0.34	0.50	*4.48	5.00	0.50	3.98	43 00	3515
5.10	1.78	1.65	13.80	12.50	12.30	12.00	1.50	0.50	2.28	2.00	2.28	-----	31 00	2772
4.16	1.99	1.65	14.17	12.50	12.27	12.00	1.90	0.50	2.28	2.00	2.28	-----	34 00	5018
5.50	0.90	0.82	11.49	11.00	10.49	10.00	1.00	1.00	1.16	1.00	1.16	-----	33 75	3395
2.00	1.03	0.82	10.17	8.00	8.57	7.00	1.60	1.00	1.19	1.00	1.19	-----	29 50	3394
4.90	1.81	1.65	8.92	9.00	*7.68	8.00	1.24	1.00	4.79	4.00	-----	4.79	39 00	3393
4.60	1.07	0.82	9.20	-----	8.35	8.00	0.85	1.00	2.25	2.00	2.25	-----	25 00	3174
4.50	1.97	1.65	8.28	-----	*7.59	8.00	0.69	1.00	6.42	6.00	6.42	-----	31 00	3173
2.55	0.64	0.41	9.07	-----	*8.53	8.00	0.54	1.00	4.76	4.00	4.76	-----	24 00	3690
4.00	1.14	0.82	9.63	-----	9.09	9.00	0.54	1.00	3.40	3.00	3.40	-----	26 00	3689
6.42	2.03	1.65	8.89	-----	8.29	8.00	0.60	1.00	2.08	2.00	2.08	-----	27 50	3176
7.55	*1.36	1.65	9.02	-----	8.28	8.00	0.74	1.00	3.15	3.00	3.15	-----	28 50	3175
5.20	1.29	1.25	11.00	11.00	8.92	9.00	2.08	2.00	4.33	3.00	4.33	-----	-----	3509
8.73	2.13	1.64	12.65	12.00	10.07	10.00	2.58	2.00	4.56	2.00	4.56	-----	-----	3442
6.22	2.08	1.64	13.67	12.00	11.23	10.00	2.44	2.00	2.78	2.00	2.78	-----	37 00	2241
7.33	1.13	0.82	12.96	12.00	11.02	11.00	1.94	1.00	3.16	2.00	3.16	-----	32 00	2994
4.28	1.72	-----	11.62	9.00	8.76	8.00	2.86	1.00	12.35	10.00	12.35	-----	26 00	3045
7.29	2.41	2.46	13.01	11.00	10.19	8.00	2.82	3.00	3.63	3.00	3.63	-----	39 50	2240
5.60	3.39	3.29	11.26	11.00	8.70	8.00	2.56	3.00	6.04	5.00	6.04	-----	39 00	3046
7.95	0.99	0.82	10.65	11.00	9.41	8.00	1.24	3.00	6.10	5.00	6.10	-----	32 00	2995
6.75	0.88	0.82	9.20	9.00	8.58	8.00	0.62	1.00	4.48	4.00	4.48	-----	30 00	2839
4.50	0.93	0.82	8.79	8.00	7.97	7.00	0.82	1.00	1.98	1.00	1.98	-----	25 00	2838
9.28	1.83	1.65	13.09	12.00	12.75	12.00	0.34	-----	2.16	2.00	2.16	-----	38 00	3672
3.96	1.57	1.65	12.22	12.00	11.88	12.00	0.34	-----	2.48	2.00	2.48	-----	25 95	2903
4.20	1.96	1.65	11.97	12.00	*11.53	12.00	0.44	-----	2.47	2.00	2.47	-----	24 95	2697
2.20	2.77	2.47	7.91	8.00	*7.77	8.00	0.14	-----	3.06	3.00	0.40	3.26	27 90	1790
2.26	2.69	2.47	7.63	8.00	*7.32	8.00	0.31	-----	3.28	3.00	0.50	2.78	26 90	2698
3.85	2.64	2.47	8.05	8.00	7.86	8.00	0.19	-----	5.42	5.00	5.42	-----	37 75	3038
2.55	1.64	1.65	8.30	8.00	8.18	8.00	0.12	-----	5.64	5.00	5.64	-----	24 80	3752
4.15	1.92	1.65	9.25	8.00	8.99	8.00	0.26	-----	*4.32	5.00	4.32	-----	30 00	2987
8.45	*2.85	3.29	10.42	10.00	10.08	10.00	0.34	-----	4.30	4.00	4.30	-----	41 00	3163
3.03	*2.82	3.29	7.79	8.00	*7.69	8.00	0.10	-----	7.36	6.00	7.36	-----	31 30	2793
3.80	3.14	3.29	8.99	8.00	8.61	8.00	0.38	-----	6.17	6.00	6.17	-----	42 00	3034
4.20	4.00	4.11	7.96	8.00	7.86	8.00	0.10	-----	5.57	5.00	5.57	-----	33 20	2792
3.24	3.14	3.28	8.42	8.00	8.14	8.00	0.28	-----	3.26	3.00	3.26	-----	38 00	3162
4.85	3.26	3.29	8.65	8.00	8.06	8.00	0.59	-----	5.70	5.00	5.70	-----	41 75	3039
1.77	1.67	1.65	10.45	10.00	10.13	10.00	0.32	-----	2.38	2.00	2.38	-----	32 50	3041
2.75	0.97	0.82	6.57	6.00	6.45	6.00	0.12	-----	10.33	10.00	10.33	-----	-----	2989

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
3526	Swift's One Six and Ten, -----	Farmers & Consumers Commercial Union, Troy.
2927	Swift's Onion, Potato and Tobacco Grower, -----	Keystone Tractor & Implement Co., Harrisburg.
3159	Swift's Onion, Potato and Tobacco Grower, -----	Adam Schmehl, North Wales, -----
3527	Swift's Red Steer 2-8-2, -----	Farmers & Consumers Commercial Union, Troy.
2996	Swift's Red Steer 2-8-2, -----	Keystone Tractor & Implement Co., Harrisburg.
3751	Swift's Red Steer 2-8-2, -----	Jerry Kretchman, Myersdale, -----
3164	Swift's Red Steer 2-8-2, -----	Adam Schmehl, North Wales, -----
3024	Swift's Reliable Grain Fertilizer, -----	B. E. & J. E. Cokley, Scranton, -----
2477	Swift's Reliable Grain Fertilizer, -----	I. T. McParland, Wagontown, -----
3730	Swift's Reliable Grain Fertilizer, -----	Milton E. Shirk, Stevens, -----
3023	Swift's Special Potato Fertilizer, -----	B. E. & J. E. Cokley, Scranton, -----
2799	Swift's Special Potato Fertilizer, -----	Lancaster County Cooperative Potato Growers Association, Lancaster.
3060	Swift's Special Fertilizer, -----	Adam Schmehl, North Wales, -----
2988	Swift's Special Wheat Grower, -----	Keystone Tractor & Implement Co., Harrisburg.
2791	Swift's Special Wheat and Corn Grower, -----	Lancaster County Cooperative Potato Growers Association, Lancaster.
3165	Swift's Special Wheat and Corn Grower, -----	Adam Schmehl, North Wales, -----
2047	Swift's Standard Potato Fertilizer, -----	W. E. Ervin, Somerton, -----
3490	Swift's Standard Potato Fertilizer, -----	A. E. Woodruff & Son, Wysox, -----
3530	Swift's Standard Potato Fertilizer, -----	Wyalusing Hay Co., Wyalusing, -----
3674	Swift's Truck Grower, -----	C. M. Amon, Transfer, -----
I. P. THOMAS & SON COMPANY, PHILADELPHIA, PA.		
2466	Champion Guano, 2-10-4, -----	Geo. B. Kase, Danville, -----
3590	Farmers Choice 2-12-2, -----	Frank Hartman, Forks, -----
2449	Farmers Choice 2-12-2, -----	Monroe A. Weik, Sheridan, -----
2242	Farmers Choice 2-12-2, -----	Yeakel & Huzzard, Norristown, -----
2542	Farmers Complete 1-8-2, -----	L. S. Kinzer, Midlinton, -----
3067	Farmers Complete 1-8-2, -----	C. A. Wamsley, Phoenixville, -----
2446	Farmers Complete 1-8-2, -----	Monroe A. Weik, Sheridan, -----
2829	Fish Mixture 1-8-5, -----	Linesville Coal Lime & Cement Co., Linesville.
2427	Fish Mixture 1-8-5, -----	F. E. Martz, Washingtonville, -----
3292	Long Island Special 4-8-6, -----	T. O. Bachman, Hellertown, -----
3166	Long Island Special 4-8-6, -----	R. E. Mason, Hatboro, -----
3293	Potato Fertilizer 2-9-6, -----	T. O. Bachman, Hellertown, -----
2465	Potato Fertilizer 2-9-6, -----	Geo. B. Kase, Danville, -----
2445	Potato Fertilizer 2-9-6, -----	Monroe A. Weik, Sheridan, -----
2875	I. P. Thomas Special Potato Fertilizer, 2-8-10, -----	L. S. Kinzer, Midlinton, -----
2244	I. P. Thomas Special Potato Fertilizer, 2-8-10, -----	Yeakel & Huzzard, Norristown, -----
2499	Tip Top Superphosphate 3-8-4, -----	Ezra Risser, Lawn, -----
2243	Tip Top Superphosphate 3-8-4, -----	Yeakel & Huzzard, Norristown, -----
2447	Vietor Potash Fertilizer 2-8-5, -----	Monroe A. Weik, Sheridan, -----
F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA.		
2722	Red Diamond Superior Potato Manure 4-8-6, -----	L. R. Levengood, Pottstown, -----
3093	Tunnell's Hygrade Cereal Manure, -----	Edw. W. Brinton & Son, West Chester, -----
2264	Veribest Cereal Manure, -----	John W. Root, Kimberton, -----
2723	Wheat and Cereal Manure, -----	L. R. Levengood, Pottstown, -----
UNION CHEMICAL WORKS, INC., NORTH WALES, Pa.		
3157	Farmers Special, -----	Geo. E. Moyer, Line Lexington, -----
3156	General Crop Grower, -----	Geo. E. Moyer, Line Lexington, -----
3158	Ideal Potato Manure, -----	Geo. E. Moyer, Line Lexington, -----



## FERTILIZERS—Continued.

FERTILIZERS—Continued.														
Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.15	0.83	0.82	6.42	6.00	6.32	6.00	0.10	-----	10.45	10.00	10.45	-----	30 00	3521
4.25	1.67	1.65	8.30	8.00	8.14	8.00	0.16	-----	7.94	7.00	7.94	-----	31 50	2927
3.49	1.92	1.65	9.03	8.00	8.61	8.00	0.42	-----	7.98	7.00	7.98	-----	32 50	3159
2.15	1.66	1.65	8.97	8.00	8.61	8.00	0.36	-----	2.33	2.00	2.33	-----	28 00	3527
3.35	1.72	1.65	8.11	8.00	*7.70	8.00	0.41	-----	3.07	2.00	3.07	-----	27 50	2986
2.50	1.67	1.65	8.95	8.00	8.65	8.00	0.30	-----	2.53	2.00	2.53	-----	23 20	3751
4.58	2.03	1.65	8.50	8.00	7.94	8.00	0.56	-----	2.02	2.00	2.02	-----	30 00	3104
2.94	1.06	0.82	8.79	8.00	8.65	8.00	0.14	-----	1.12	1.00	1.12	-----	28 00	3024
2.50	0.97	0.82	7.87	8.00	*7.79	8.00	0.08	-----	1.45	1.00	1.45	-----	24 00	2717
4.33	0.90	0.82	8.06	8.00	8.00	8.00	0.06	-----	1.19	1.00	1.19	-----	25 00	3730
3.01	1.74	1.65	8.05	8.00	7.92	8.00	0.13	-----	11.06	10.00	11.06	-----	38 00	3023
2.55	1.70	1.65	8.57	8.00	8.43	8.00	0.14	-----	*8.40	10.00	8.40	-----	28 65	2790
3.62	1.83	1.65	8.24	8.00	8.14	8.00	0.10	-----	10.66	10.00	10.66	-----	40 00	3160
5.02	1.02	0.82	8.30	8.00	8.04	8.00	0.26	-----	4.44	4.00	4.44	-----	26 50	2988
2.31	1.69	1.65	10.97	10.00	10.83	10.00	0.14	-----	4.27	4.00	4.27	-----	26 00	2791
4.50	2.02	1.65	10.24	10.00	9.94	10.00	0.30	-----	4.26	4.00	4.26	-----	36 00	3165
1.90	1.80	1.65	8.73	8.00	8.51	8.00	0.22	-----	2.81	3.00	2.81	-----	30 00	3047
1.47	1.74	1.65	8.60	8.00	8.50	8.00	0.10	-----	2.96	3.00	2.96	-----	31 00	3496
1.75	1.52	1.65	8.27	8.00	8.17	8.00	0.10	-----	3.54	3.00	3.54	-----	28 00	3530
8.50	0.82	0.82	9.83	9.00	9.71	8.00	0.12	-----	4.14	4.00	4.14	-----	33 75	3674
8.42	1.97	1.65	11.68	10.50	10.36	10.00	1.32	0.50	4.35	4.00	4.35	-----	31 25	2466
8.95	1.87	1.65	14.22	12.50	13.48	12.00	0.74	0.50	2.36	2.00	2.36	-----	-----	3590
8.66	2.18	1.65	13.02	12.50	*11.78	12.00	1.24	0.50	3.10	2.00	3.10	-----	-----	2449
11.86	1.76	1.64	12.92	12.50	*11.74	12.00	1.18	0.50	2.31	2.00	2.31	-----	37 00	2242
3.87	1.15	0.82	9.83	8.50	8.73	8.00	1.10	0.50	2.69	2.00	2.69	-----	23 75	2542
2.72	1.03	0.82	10.01	8.50	8.91	8.00	1.10	0.50	2.89	2.00	2.89	-----	30 00	3067
6.22	0.98	0.82	10.23	8.50	9.25	8.00	0.98	0.50	2.67	2.00	2.67	-----	-----	2446
3.10	1.17	0.82	10.45	8.50	9.21	8.00	1.24	0.50	5.05	5.00	5.05	-----	-----	2829
6.07	1.29	0.82	9.99	8.50	9.25	8.00	0.74	0.50	*4.36	5.00	4.36	-----	25 35	2427
3.56	3.49	3.25	9.44	8.50	8.34	8.00	1.10	0.50	6.54	6.00	6.54	-----	-----	3292
6.30	3.61	3.25	9.48	8.50	8.02	8.00	1.46	0.50	6.51	6.00	6.51	-----	45 00	3166
1.83	2.03	1.65	11.16	9.50	9.66	9.00	1.50	0.50	6.31	6.00	0.70	5.61	36 00	3293
8.64	2.01	1.65	9.94	9.50	9.00	9.00	0.94	0.50	6.33	6.00	6.33	-----	32 50	2465
7.17	1.96	1.65	10.15	9.50	9.37	9.00	0.78	0.50	6.69	6.00	6.69	-----	-----	2445
5.42	1.73	1.64	9.75	9.00	8.67	8.00	1.08	1.00	10.29	10.00	10.29	-----	34 50	2375
3.17	1.90	1.64	9.67	9.00	8.55	8.00	1.12	1.00	10.76	10.00	10.76	-----	39 75	2244
6.90	2.51	2.45	10.28	8.50	9.16	8.00	1.12	0.50	4.43	4.00	4.43	-----	35 00	2499
8.39	2.83	2.46	10.10	8.50	8.82	8.00	1.28	0.50	4.65	4.00	4.00	0.65	39 50	2243
5.12	1.96	1.65	9.78	8.50	8.70	8.00	1.08	0.50	5.05	5.00	5.05	-----	-----	2447
6.35	3.23	3.30	8.88	9.00	*7.64	8.00	1.24	1.00	8.12	6.00	8.12	-----	41 00	2722
6.90	1.88	1.64	9.95	9.00	8.29	8.00	1.66	1.00	3.14	2.00	3.14	-----	31 00	3098
8.41	1.80	1.64	9.66	9.00	8.82	8.00	1.34	1.00	4.62	4.00	4.62	-----	38 00	2264
5.41	1.16	0.82	9.06	9.00	8.14	8.00	0.92	1.00	5.15	4.00	5.15	-----	28 50	2723
4.80	0.83	0.82	9.54	-----	8.52	8.00	1.02	-----	4.15	4.00	4.15	-----	31 00	3157
5.85	1.12	0.82	8.95	-----	8.23	8.00	0.72	-----	1.91	2.00	1.91	-----	29 00	3156
2.12	3.14	3.28	9.27	-----	*7.57	8.00	1.70	-----	10.78	10.00	10.78	-----	44 00	3158

\*Deficient.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	UNITED STATES GUANO CO., BALTI- MORE, MD.	
2378	Farmers Friend, -----	Chas. Minich, Tower City, -----
2288	Maximum Crop Producer, -----	Thos. K. George, Homer City, -----
2377	Standard United States Accomac Peninsula King, -----	Chas. Minich, Tower City, -----
2379	Standard United States Big 4 Grower, -----	Chas. Minich, Tower City, -----
2287	Standard United States Eastern Shore 5-7-5 Produce Exchange Special, -----	Thos. K. George, Homer City, -----
3541	Standard United States Grain Grower, -----	E. L. Jones, Fairdale, -----
2292	Standard United States Great Grain Grower 1-8-4, -----	Thos. K. George, Homer City, -----
3055	Standard United States Great Grain Grower 1-8-4, -----	Edw. W. Rupert, Oxford, -----
3054	Standard United States Mammoth Potato Grower, -----	Edw. W. Rupert, Oxford, -----
2541	Standard United States Mammoth Truck Grower, -----	Jos. K. McLaughlin, Spruce Hill, -----
2681	Standard United States Mammoth Truck Grower, -----	C. C. Pollock, Marion Center, -----
3595	Standard United States Special Potato Guano, -----	Wm. DeTurk, Cressona, -----
	VIRGINIA-CAROLINA CHEMICAL CO. OF DELAWARE, BALTIMORE, MD., & NEW YORK, N. Y.	
3622	V. C. Beaver Brand, -----	Robert Raker & Son, Liberty, -----
3652	V. C. Best Crop Formula, -----	Cochranon Milling Co., Cochranon, -----
2919	V. C. Best Potato Formula, -----	N. R. Yost, Myerstown, -----
3620	V. C. Challenge Brand, -----	Robert Raker & Son, Liberty, -----
3212	V. C. Champion Manure, -----	T. J. Creeley, Glen Campbell, -----
3214	V. C. Fish and Potash Mixture, -----	T. J. Creeley, Glen Campbell, -----
2918	V. C. Fish and Potash Mixture, -----	N. R. Yost, Myerstown, -----
2381	V. C. Owl Brand Guano, -----	Blair Knisely, Reynoldsdale, -----
2920	V. C. Special Compound, -----	N. R. Yost, Myerstown, -----
3241	V. C. Standard Crop Grower, -----	W. B. Rauck, Warfordsburg, -----
2934	V. C. Standard Grain Grower, -----	S. E. Shenk & Sons, Newville, -----
	WASHINGTON, ALEXANDER & COOKE CO., CHARLESTOWN, W. VA.	
3718	Wacco Crop Grower, -----	Quarryville Farmers Association, Quarry- ville, -----
2761	Wacco Potato and Tobacco Manure, -----	E. S. Kelly, Gettysburg, -----
	YORK CHEMICAL WORKS, YORK, PA.	
2234	General Crop, -----	Great Valley Mills Co., Paoli, -----
3447	General Crop, -----	David Reigle, Jonestown, -----
2236	Grain Special, -----	Fisher & Nolan, West Chester, -----
3429	Grain Special, -----	T. W. Kerin, Meshannon, -----
3150	Grain Special, -----	Red Lion Farmers Association, Red Lion, -----
2949	One-Eight-One, -----	Enos H. Horst, Chambersburg, -----
2300	One-Eight-One, -----	H. K. Kneppshield, Apollo, -----

## FERTILIZERS—Continued.

FERTILIZERS—Continued.														
Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.14	*3.67	-----	10.54	-----	9.40	8.00	1.14	0.50	6.48	6.00	6.48	-----	38 00	2378
5.16	*2.97	3.29	10.56	8.50	10.18	8.00	0.38	0.50	3.71	3.00	3.71	-----	-----	2288
3.60	*3.50	4.11	10.88	-----	9.36	8.00	1.52	0.50	5.78	5.00	5.78	-----	-----	2377
7.80	3.67	3.29	11.51	8.50	10.45	8.00	1.06	0.50	5.82	5.00	5.82	-----	-----	2379
4.95	*3.70	4.11	9.63	-----	8.57	7.00	1.06	0.50	6.04	5.00	6.04	-----	41.00	2287
3.05	2.04	1.64	10.42	8.50	8.02	8.00	2.40	0.50	2.09	2.00	0.90	1.19	26 25	3541
3.70	1.56	0.82	10.87	8.50	9.97	8.00	0.90	0.50	4.41	4.00	4.41	-----	27 50	2292
4.00	1.70	-----	10.27	-----	8.87	8.00	1.40	0.50	5.26	4.00	5.26	-----	27 00	3055
5.15	2.05	1.64	11.62	8.50	9.78	8.00	1.84	0.50	*6.67	10.00	6.67	-----	25 00	3054
6.55	2.47	1.64	9.72	8.50	8.24	8.00	1.48	0.50	7.09	5.00	5.80	1.29	26 25	2541
4.89	1.85	1.64	12.63	8.50	11.11	8.00	1.52	0.50	*4.78	5.00	2.90	1.88	28 00	26-1
4.04	*2.26	2.46	10.51	8.50	8.95	8.00	1.56	0.50	4.25	4.00	4.25	-----	30 00	3595
6.30	0.90	0.82	9.66	9.00	8.72	8.00	0.94	1.00	2.17	2.00	2.17	-----	29 00	3622
3.50	2.16	1.65	11.80	11.00	9.81	10.00	1.99	1.00	6.59	6.00	6.59	-----	33 50	3652
6.00	3.61	3.29	9.06	9.00	7.96	8.00	1.10	1.00	6.78	6.00	6.78	-----	41 00	2919
7.00	1.01	0.82	11.21	10.00	10.29	9.00	0.92	1.00	3.77	3.00	3.77	-----	31 00	3620
5.60	0.77	0.41	8.66	9.00	*7.68	8.00	0.98	1.00	1.48	1.00	1.48	-----	26 00	3212
6.25	1.81	1.65	9.68	9.00	7.98	8.00	1.70	1.00	3.14	3.00	3.14	-----	33 00	3214
7.65	1.68	1.65	10.50	9.00	8.42	8.00	2.08	1.00	3.10	3.00	3.10	-----	31 00	2918
7.66	1.93	1.65	10.03	9.00	*7.61	8.00	2.42	1.00	5.30	5.00	5.30	-----	37 00	2381
8.10	1.01	0.82	9.85	9.00	8.26	8.00	1.59	1.00	1.08	1.00	1.08	-----	25 00	2920
8.07	1.75	1.65	9.96	9.00	8.00	8.00	1.96	1.00	2.79	2.00	2.79	-----	24 10	3241
6.80	0.94	0.82	9.24	9.00	8.00	8.00	1.24	1.00	2.58	2.00	2.58	-----	25 00	2334
6.70	1.57	1.65	9.34	9.00	7.82	8.00	1.52	1.00	5.50	5.00	5.50	-----	29 00	3718
3.67	0.89	0.41	6.81	8.00	*6.25	7.00	0.56	1.00	1.87	2.00	1.87	-----	21 75	2761
6.74	2.52	2.47	10.94	10.00	10.16	10.00	0.78	-----	4.08	4.00	4.08	-----	34 75	2234
5.00	2.51	2.46	10.94	10.00	10.58	10.00	0.36	-----	4.08	4.00	4.08	-----	33 00	2230
9.00	1.83	1.64	12.12	12.00	*11.27	12.00	0.85	-----	2.31	2.00	2.31	-----	30 00	3429
9.23	1.81	1.64	12.88	12.00	12.12	12.00	0.76	-----	2.48	2.00	2.48	-----	27 15	3150
9.10	2.05	1.64	13.92	12.00	13.38	12.00	0.54	-----	2.46	2.00	0.90	1.56	2049	
7.12	0.65	0.82	8.69	8.00	8.21	8.00	0.48	-----	1.51	1.00	1.51	-----	22 35	2300
8.25	0.79	0.82	8.56	8.00	8.12	8.00	0.44	-----	1.48	1.00	1.48	-----	-----	

\*Deficient.

†Compared with registered guarantee.

TABLE IV.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
2507	One-Eight-Two,	-----	Lancaster County Farmers Supply Co.,	Manheim.
2231	One-Eight-Two,	-----	Harry Pyle & Son, Chadds Ford Junction.	
2220	Plow Brand,	-----	H. A. Mendenhall, Toughenamon,	-----
3148	Plow Brand,	-----	Red Lion Farmers Association, Red Lion,	
3666	Plow Brand,	-----	Peter Shaffer & Son, New Brighton,	-----
2546	Potato and Truck,	-----	E. A. Beck, Lehighton,	-----
3151	Potato and Truck,	-----	Red Lion Farmers Association, Red Lion,	
3448	Potato and Truck,	-----	David Reigle, Jonestown,	-----
2147	Royal Mixture,	-----	Red Lion Farmers Association, Red Lion,	
2229	Standard,	-----	Fisher & Nolan, West Chester,	-----
2569	Standard,	-----	Lancaster County Farmers Supply Co.,	Manheim.
3149	Standard,	-----	Red Lion Farmers Association, Red Lion,	
2236	Standard Potash,	-----	Great Valley Mills Co., Paoli,	-----
2301	Standard Potash,	-----	H. K. Knepshild, Apollo,	-----
2508	Standard Potash,	-----	Lancaster County Farmers Supply Co.,	Manheim.
3665	2-8-10,	-----	Peter Shaffer & Son, New Brighton,	-----
			Average,	-----



## FERTILIZERS—Concluded.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	£	
6.38	0.98	0.82	9.01	8.00	8.67	8.00	0.34	-----	2.61	2.00	2.61	-----	27 50	2507
8.24	0.90	0.82	9.06	8.00	8.08	8.00	0.98	-----	2.12	2.00	2.12	-----	26 00	2231
8.17	1.68	1.64	9.08	8.00	8.20	8.00	0.88	-----	2.22	2.00	2.22	-----	30 00	2220
8.27	1.83	1.64	9.10	8.00	8.40	8.00	0.70	-----	2.86	2.00	2.86	-----	24 00	3148
5.70	1.71	1.64	9.36	8.00	8.74	8.00	0.62	-----	2.69	2.00	2.69	-----	28 50	3063
4.10	4.02	4.10	9.43	8.00	9.00	8.00	0.48	-----	9.61	7.00	6.40	3.21	45 00	3546
8.37	4.18	4.10	8.92	8.00	7.86	8.00	1.06	-----	7.65	7.00	7.65	-----	43 20	3151
8.25	4.14	4.10	9.40	8.00	9.06	8.00	0.34	-----	6.30	7.00	6.90	-----	44 75	3448
11.05	1.52	1.64	11.16	10.00	10.10	10.00	1.06	-----	4.76	4.00	4.76	-----	27 35	3147
7.97	1.78	1.64	8.84	8.00	8.12	8.00	0.72	-----	5.27	5.00	5.27	-----	32 60	2229
9.80	1.65	1.64	8.98	8.00	8.50	8.00	0.48	-----	5.83	5.00	5.83	-----	34 25	2500
8.51	1.53	1.64	9.08	8.00	8.12	8.00	0.36	-----	4.91	5.00	4.91	-----	26 90	3149
7.55	0.89	0.82	9.34	8.00	8.40	8.00	0.94	-----	4.09	4.00	4.09	-----	-----	2236
9.85	0.77	0.82	9.07	8.60	8.01	8.00	1.06	-----	4.00	4.00	4.90	-----	25 20	2301
8.66	0.90	0.82	9.26	8.00	8.32	8.00	0.94	-----	4.36	4.00	4.36	-----	29 50	2508
6.25	1.66	1.64	9.35	8.00	8.73	8.00	0.62	-----	10.10	10.00	10.10	-----	36 00	3665
5.81	1.67	-----	9.59	-----	8.67	-----	0.92	-----	4.18	-----	-----	-----	30 69	-----

TABLE V.—NITROGEN AND PHOS

Including Dissolved Bones

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
3283	Ammoniated Fertilizer A, -----	M. R. Brumbaugh & Son, Martinsburg,
3397	Ammoniated Fertilizer A, -----	Callup Hardware Co., Port Allegheny,--
2784	Ammoniated Fertilizer A, -----	Samuel W. Reeser, Leesport, -----
2750	Ammoniated Fertilizer AA, -----	G. R. Thompson & Son, Gettysburg, ----
2323	Ammoniated Fertilizer AAA, -----	Torrence Delong, Loganton, -----
3734	Josiah Cope's Fish Phosphate, -----	B. E. Specht, Stoystown, -----
2539	Lister's Plant Food 1916, -----	J. F. Fuller, Honey Grove, -----
3365	Lister's Plant Food 1916, -----	E. F. Harrison, Edinboro, -----
3742	Ludlam's Ceerops Hono Manure, -----	West Salisbury Feed Co., West Salisbury,
3369	Milsom's Golden Eagle, -----	Earl Eagley, W. Springfield, -----
2821	Milsom's Golden Eagle, -----	J. R. Hanks, Springboro, -----
2822	Milsom's Special Phosphate, -----	J. R. Hanks, Springboro, -----
2930	Nassau Old Hickory, -----	W. B. Barnitz, Carlisle, -----
2566	Schaal-Sheldon's Ammoniated Super-phosphate X, -----	J. E. Jackson, Everett, -----
2714	J. E. Tygert's Ammoniated Fertilizer A, -----	J. E. March, Barnestown, -----
2495	J. E. Tygert's Pawnee Phosphate, -----	E. E. Meyer, Fredericksburg, -----
2320	Wheeler's Ammoniated Corn Phosphate, -----	Torrence Delong, Loganton, -----
	ARMOUR FERTILIZER COMPANY, BALTIMORE, MD.	
2975	Armour's Ammoniated Phosphate, -----	H. E. Myers, Ford City, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
3077	Baugh's Half and Half Mixture, -----	Bunting Brothers, Oxford, -----
2485	Baugh's Peninsula Grain Producer, -----	P. W. G. Raker, Elizabethville, -----
3657	Baugh's The Old Standby Dissolved Animal Base, -----	W. S. Minnium, Meadville, -----
	THE CENTRAL CHEMICAL COMPANY, BALTIMORE, MD.	
2979	Gro-All Pride of the Valley, -----	H. E. Myers, Ford City, -----
	THE COE-MORTIMER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
2334	E. Frank Coe's XXV Ammoniated Phosphate 1916, -----	Coburn Grain & Creamery Co., Coburn,
3480	E. Frank Coe's Original Ammoniated Dissolved Phosphate, -----	Abington Lumber Co., Dalton, -----
2333	E. Frank Coe's Original Ammoniated Dissolved Phosphate, -----	Coburn Grain & Creamery Co., Coburn,
3466	E. Frank Coe's Original Ammoniated Dissolved Phosphate, -----	Albert S. Sarig, Bowers, -----
3479	E. Frank Coe's Prolific Crop Producer 1916, -----	Abington Lumber Co., Dalton, -----
3510	E. Frank Coe's Prolific Crop Producer 1916, -----	Frank Lewis, New Albany, -----
	THE ERIE REDUCTION CO., ERIE, PA.	
3372	Acidulated Fish Special, -----	The Nickel Plate Flour Mills, Erie, -----
	FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.	
2893	Farmers Golden Sheaf, -----	B. F. Horting, Newport, -----
3728	Farmers I. X. L., -----	E. B. Fritz & Sons Co., Quarryville, ---

## PHOSPHORIC ACID FERTILIZERS.

And Other Like Products.

and Other Like Products.										
Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	%	%	\$	
2.65	1.00	0.82	12.26	11.00	10.96	10.00	1.30	1.00	24 00	3283
4.72	1.15	0.82	11.00	11.00	*9.44	10.00	1.56	1.00	32 50	3397
2.15	1.07	0.82	12.45	11.00	11.19	10.00	1.26	1.00		2784
4.85	2.08	1.65	11.66	11.00	10.60	10.00	1.06	1.00	26 00	2750
9.10	2.52	2.47	10.55	11.00	*9.11	10.00	1.44	1.00	32 17	2323
2.16	1.22	0.82	9.52	9.00	8.48	8.00	1.04	1.00	24 00	3734
3.55	0.95	0.82	11.99	11.00	10.49	10.00	1.50	1.00	26 00	2539
2.85	1.04	0.82	11.37	11.00	10.29	10.00	1.08	1.00	27 50	3365
1.63	0.93	0.82	8.93	9 00	8.25	8.00	0.68	1.00	20 00	3742
3.05	1.90	1.65	11.86	11.00	10.12	10.00	1.74	1.00	32 00	3369
2.05	1.86	1.65	12.12	11.00	10.86	10.00	1.26	1.00	30 50	2821
1.48	0.98	0.82	12.13	11.00	10.37	10.00	1.76	1.00	27 00	2822
5.35	0.87	0.82	11.76	11.00	10.44	10.00	1.32	1.00	23 50	2930
2.31	1.09	0.82	9.68	9.00	8.56	8.00	1.12	1.00	22 00	2566
2.88	1.09	0.82	12.08	11.00	10.74	10.00	1.34	1.00	23 55	2714
2.71	0.88	0.82	10.01	9.00	8.99	8.00	1.02	1.00	25 25	2495
7.61	1.79	1.65	11.41	11.00	*8.95	10.00	2.46	1.00	28 42	2320
2.60	1.12	0.82	11.60	10.50	*9.69	10.00	1.91	0.50	28 50	2975
4.00	1.58	1.23	17.32	17.00	*11.17	12.00	6.15	5.00	29 00	3077
6.27	1.09	0.82	10.06	9.00	*8.78	9.00	1.28		25.00	2485
4.55	1.72	1.65	13.48	12.00	12.12	12.00	1.36		35 00	3657
2.82	1.09	0.82	11.17	-----	10.31	10.00	0.86	0.50	28 50	2979
7.30	1.19	0.82	11.80	11.00	10.50	10.00	1.30	1.00	22 00	2334
3.40	1.88	1.65	11.66	11.00	10.90	10.00	0.76	1.00	21 00	3480
5.71	1.81	1.65	11.45	11.00	*9.75	10.00	1.70	1.00	23 75	2333
5.05	1.76	1.65	13.69	11.00	10.61	10.00	3.08	1.00	28 50	3466
4.65	*2.63	3.29	10.42	11.00	10.10	10.00	0.32	1.00	23 00	3479
4.10	3.68	3.29	10.83	11.00	10.47	10.00	0.36	1.00	35 50	3510
2.81	1.24	1.03	11.94	11.50	10.00	9.50	1.94	2.00	27 00	3372
9.61	1.60	1.65	12.40	11.00	11.34	10.00	1.06	1.00	24 30	2893
6.20	1.62	1.65	14.32	13.00	13.44	12.00	0.88	1.00	-----	3728

\*Deficient.

TABLE V.—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
2418	Griffith & Boyd Co.'s Farmers Gem, -----	P. L. Bergenstock, Pottsgrove, -----
2471	Griffith & Boyd Co.'s Fish and Blood Mixture, -----	Hartley & Blaine, Turbotville, -----
2472	Griffith & Boyd Co.'s Peerless Mixture, ---	Hartley & Blaine, Turbotville, -----
2666	Griffith & Boyd Co.'s Peerless Mixture, --	Mahoning Hardware & Implement Co., Punxsutawney, -----
2270	Griffith & Boyd Co.'s Peerless Mixture, --	John W. Root, Kimberton, -----
	S. M. HESS & BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CO., NEW YORK, N. Y.	
2501	Standard Super Phosphate, -----	H. M. Hostedder, Campbelltown, -----
	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.	
2671	Hubbard's Excelsior Mixture, -----	Reynoldsville Hwd. Co., Reynoldsville, -----
2825	Hubbard's Oriental Guano, -----	F. E. Moulthrop, Conneautville, -----
3279	Hubbard's Oriental Guano, -----	H. L. Orr, Tyrone, -----
	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
3322	Keystone High Grade Truck Guano, ---	Peter H. Kleinbans, Easton, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
3703	Levan's Farmers Mixture, -----	J. M. Hess, Safe Harbor, -----
	THE MILLER FERTILIZER CO., BALTIMORE, MD.	
2695	Miller's No. 1 Special, -----	Miller T. Harkins, Hickory Hill, -----
2467	Miller's No. 1 Special, -----	Hartley & Blaine, Turbotville, -----
3105	Miller's No. 1 Special, -----	H. E. Meyers, Muncy, -----
3094	Miller's 2-14, -----	Laurel Locks Farm, Pottstown, -----
	G. OBER & SONS CO., BALTIMORE, MD.	
2751	Ober's Sun Beam Guano, -----	D. Blocher & Co., Gettysburg, -----
	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.	
2619	Piedmont Special Crop Grower, -----	McConnell Brothers, Hughesville, -----
2617	Utility, -----	McConnell Brothers, Hughesville, -----
	PITTSBURGH PROVISION & PACKING CO., PITTSBURGH, PA.	
3647	Guano Fertilizer, -----	W. J. Gilson, Titusville, -----
	READING BONE FERTILIZER CO., READING, PA.	
2881	Animal Tankage Mixture, -----	Juniata Pomona Grange, Millintown, ---
3612	Dissolved Animal Matter, -----	John M. Good, Pine Grove, -----
2262	Dissolved Animal Matter, -----	Great Valley Mills Co., Exton, -----
	READING CHEMICAL CO., READING, PA.	
2644	Early Truck, Tobacco and Potato, -----	J. M. Lucas, Valley View, -----
2308	Farmers Favorite, -----	Charles Frazer, Mill Hall, -----
2981	Farmers Favorite, -----	W. J. Painter, Tarentum, -----
3356	Farmers Favorite, -----	Leonard Ritter, St. Marys, -----



## PHOSPHORIC ACID FERTILIZERS—Continued.

PHOSPHORIC ACID FERTILIZERS											
Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.	
	Found.	Guaranteed.	Total.		Available.		Insoluble.				
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			
%	%	%	%	%	%	%	%	%	\$		
6.23	1.05	0.82	11.28	11.00	10.58	10.00	0.70	1.00	25.90	2418	
7.90	1.48	1.44	8.85	8.00	8.33	7.00	0.52	1.00	26.00	2471	
2.36	0.53	0.41	9.48	9.00	8.63	8.00	1.44	1.00	23.00	2472	
2.50	0.61	0.41	9.62	9.00	8.28	8.00	1.34	1.00	21.25	2666	
4.29	0.68	0.41	9.25	9.00	8.31	8.00	0.94	1.00	25.00	2270	
2.67	1.09	0.82	12.23	11.00	10.89	10.00	1.34	1.00	24.00	2501	
5.25	1.80	1.64	13.53	11.00	12.27	10.00	1.26	1.00	29.25	2671	
2.85	1.21	0.82	11.26	11.00	*9.18	10.00	2.08	1.00	29.50	2825	
2.89	1.19	0.82	11.51	11.00	9.99	10.00	1.52	1.00	26.00	3279	
4.55	3.98	4.10	11.70	9.00	9.94	8.00	1.76	1.00	38 00	3322	
5.70	0.86	0.82	10.08	11.00	10.00	10.00	0.08	1.00	25 35	3763	
2.37	1.86	1.65	11.41	10.50	10.27	10.00	1.14	0.50	-----	2695	
2.53	1.99	1.65	11.06	10.50	10.04	10.00	1.02	0.50	-----	2467	
5.05	1.85	1.65	11.77	10.50	10.01	10.00	1.76	0.50	30 00	3165	
3.34	1.88	1.65	14.67	-----	*13.53	14.00	1.14	0.50	26 00	3094	
7.95	*1.40	1.65	13.44	12.00	10.86	11.00	2.58	1.00	30 00	2751	
3.55	1.02	0.82	12.40	11.00	11.34	10.00	1.06	1.00	26 00	2619	
3.72	*1.40	1.65	11.75	11.00	10.73	10.00	1.02	1.00	30 00	2617	
2.20	2.06	1.43	11.28	11.00	*8.30	9.00	2.98	2.00	42 00	3647	
6.50	1.77	1.64	15.98	15.00	14.68	14.00	1.30	1.00	28 40	2881	
5.57	0.90	0.82	10.77	11.00	10.15	10.00	0.62	1.00	-----	3612	
7.86	1.12	0.82	11.19	11.00	10.61	10.00	0.58	1.00	27 00	2262	
3.15	3.76	3.29	11.26	11.00	10.48	10.00	0.78	1.00	-----	2644	
5.95	1.02	0.82	10.59	11.00	9.93	10.00	0.66	1.00	24 50	2308	
7.65	0.80	0.82	10.77	11.00	10.29	10.00	0.48	1.00	29 00	2981	
2.75	1.10	0.82	11.43	11.00	10.93	10.00	0.50	1.00	29 00	3356	

\*Deficient.

TABLE V.—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.			
2622	Royster's Honor Brand, -----		McConnell Brothers, Hughesville, -----	
2303	Royster's Royal Blue Brand, -----		Glossner Implement Co., Lock Haven, --	
3215	Royster's Royal Blue Brand, -----		Otto E. Knoll, Cherry Tree, -----	
2621	Royster's Royal Blue Brand, -----		McConnell Brothers, Hughesville, -----	
	SWIFT & COMPANY, BALTIMORE, MD.			
3040	Swift's Special Corn Grower, -----		Grooket Brothers, Foxchase, -----	
3568	Swift's Two Fourteen Naught, -----		Stanley Harrison, Wilkes-Barre, -----	
	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA.			
2265	Fish Manure, -----		John W. Root, Kimberton, -----	
2266	Grain Manure, -----		John W. Root, Kimberton, -----	
	UNITED STATES GUANO CO., BALTI- MORE, MD.			
3053	Rupert's Special Mixture 3-8-0, -----		E. W. Rupert, Oxford, -----	
3540	Standard United States Dissolved Bone, --		E. L. Jones, Fairdale, -----	
	WASHINGTON, ALEXANDER & COOKE CO., CHARLESTOWN, W. VA.			
3720	Wacco Half and Half, -----		Quarryville Farmers Ass'n., Quarryville,	
3716	Wacco Regular Corn Mixture, -----		Quarryville Farmers Ass'n., Quarryville,	
	YORK CHEMICAL WORKS, YORK, PA.			
2977	Dempwolf's Crop Grower, -----		H. E. Myers, Ford City, -----	
2232	Dempwolf's Crop Grower, -----		Harry Pyle & Son, Chadds Ford Junc- tion.	
2235	Dempwolf's Prosperity, -----		Great Valley Mills Co., Paoli, -----	
			Average, -----	

## PHORIC ACID FERTILIZERS—Concluded.

PHOSPHORIC ACID FERTILIZERS—Continued.										
Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	%	%	\$	
1.39	2.00	1.65	11.89	10.50	11.01	10.00	0.88	0.50	30 00	2622
3.50	1.02	0.82	10.80	10.50	10.20	10.00	0.60	0.50	27 50	2303
1.30	0.86	0.82	10.89	10.50	10.01	10.00	0.88	0.50	28 00	3215
2.15	1.11	0.82	11.39	10.50	10.65	10.00	0.74	0.50	26 00	2621
2.24	1.63	-----	10.28	10.00	10.01	10.00	0.27	-----	30 00	3040
3.25	1.88	1.65	14.15	14.00	*13.78	14.00	0.37	-----	-----	3568
8.81	1.91	1.64	11.16	11.00	10.04	10.00	1.12	1.00	35 00	2265
8.50	1.15	0.82	13.55	13.00	12.79	12.00	0.76	1.00	32 00	2266
3.96	*2.13	2.47	13.01	8.50	10.99	8.00	2.02	0.50	-----	3053
4.35	2.24	1.84	10.42	10.50	*8.34	10.00	2.08	0.50	26 25	3540
4.70	1.67	1.03	17.88	14.00	*11.44	13.00	6.44	1.00	28 00	3720
2.95	1.10	0.82	11.16	11.00	9.91	10.00	1.25	1.00	23 50	3716
6.20	0.87	-----	11.68	10.00	11.20	10.00	0.48	-----	26 50	2977
7.68	1.10	0.82	10.40	10.00	10.06	10.00	0.34	-----	26 00	2232
7.17	2.06	1.64	13.62	12.00	12.32	12.00	1.30	-----	-----	2225
4.38	1.49	-----	11.72	-----	10.39	-----	1.33	-----	27 45	-----

\*Deficient.

TABLE VI.—GROUND

Furnishing Nitrogen,

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
3478	Fine Ground Bone, -----	Abington Lumber Co., Dalton, -----
3431	Fine Ground Bone, -----	J. O. Reed, Philipsburg, -----
2249	Fine Ground Bone, -----	Simpson Brothers, Norristown, -----
2686	Pure Bone Meal, -----	Anna M. Lawrence, West Chester, -----
3178	Pure Bone Meal, -----	Mackey & Yorkes, Oxford, -----
3287	Pure Bone Meal, -----	Stultz Brothers, Hollidaysburg, -----
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
2661	Armour's Big Crop Bone Meal, -----	Frank Duglass, Indiana, -----
3261	Armour's Big Crop Bone Meal, -----	Hibner-Hoover Hardware Co., DuBois, -----
3347	Armour's Big Crop Bone Meal, -----	Kane Milling & Grocery Co., Kane, -----
	ASSOCIATED CHEMICAL COMPANY, HAGERSTOWN, MD.	
3074	Fine Bone Meal, -----	Wm. C. Ball, Media, -----
3235	Pure Raw Bone, -----	W. B. Thompson & Son, Waynesboro, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
3270	Baugh's Raw Bone Meal-Warranted Pure, -----	Edwards Hardware Co., Ebensburg, -----
3604	Baugh's Raw Bone Meal-Warranted Pure, -----	A. R. Kimmel, Orwigsburg, -----
2224	Baugh's Raw Bone Meal-Warranted Pure, -----	H. A. Mendenhall, Toughkenamon, -----
	DARLING & COMPANY, CHICAGO, ILL.	
2826	Darling's Pure Ground Bone, -----	Thos. L. Nicolls, Conneautville, -----
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
2664	Griffith & Boyd Co's. Pure Fine Ground Meal, -----	Mahoning Hardware & Implement Co., Punxsutawney, -----
	THE JARECKI CHEMICAL COMPANY (ARMOUR OWNED), SANDUSKI, OHIO.	
3644	Bone Meal, -----	J. L. Alcorn, Titusville, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
2362	Levan's Pure Fine Ground Bone Meal, -----	I. E. Artz, Hegins, -----
3486	Levan's Pure Fine Ground Bone Meal, -----	J. W. Cook, Arick, -----
3120	Levan's Pure Fine Ground Bone Meal, -----	H. H. Lundy, Montoursville, -----
	F. E. LORD, ESPY, PA.	
3584	Pure Ground Bone, -----	F. E. Lord, Espy, -----
	THE MILLER FERTILIZER CO., BALTIMORE, MD.	
2691	Miller's Bone Product, -----	Miller T. Harkins, Hickory Hill, -----
	NITRATE AGENCIES COMPANY, NEW YORK, N. Y.	
3627	Raw Ground Bone, -----	A. R. Johnson, Wellsboro, -----
	PITTSBURGH PROVISION & PACKING CO., PITTSBURGH, PA.	
3648	Bone Meal Fertilizer, -----	W. J. Gilson, Titusville, -----
	ROBERT A. REICHARD, ALLENTOWN, PA.	
3235	Reichard's Steamed Bone Meal, -----	Robert A. Reichard, Allentown, -----



## BONE FERTILIZERS.

and Phosphoric Acid.

Moisture.	CHEMICAL ANALYSIS.				MECHANICAL ANALYSIS		Selling price per ton at place of selection.	Chemist's number.
	NITROGEN.		PHOSPHORIC ACID.		Fine.	Coarse.		
	Found.	Guaranteed.	Found.	Guaranteed.				
%	%	%	%	%	%	%	\$	
3.45	2.49	2.47	27.67	22.88	66	34	50 00	3478
5.35	2.72	2.47	22.76	22.88	61	39	50 00	3431
13.71	2.46	2.47	24.39	22.88	74	26	45 00	2249
7.50	4.04	3.70	22.87	21.51	36	64	45 00	2686
6.28	3.77	3.70	*20.39	21.51	85	15	43 25	3178
4.50	4.18	3.70	23.29	21.51	36	47	55 00	3287
4.32	2.50	2.47	26.70	22.00	68	32	42 00	2661
4.47	3.13	2.47	26.18	22.00	55	45	44 00	3261
3.07	2.88	2.47	26.19	22.00	66	34	55 00	3347
3.17	2.79	2.40	*22.62	23.00	53	47	42 00	3074
5.75	4.79	3.70	19.89	20.00	49	51	46 85	3235
6.95	4.22	3.70	*20.40	21.50	64	36	45 00	3270
7.21	3.80	3.70	*20.63	21.50	59	41	39 00	3604
6.85	3.84	3.70	*20.97	21.50	59	41	42 00	2224
3.10	2.01	1.85	28.76	28.00	67	33	40.00	2826
5.60	3.49	3.29	*19.55	20.00	53	47	40.50	2664
1.45	1.79	1.65	27.23	27.00	73	27	38 00	3644
8.08	2.86	2.47	23.37	22.89	66	34	39 00	2362
5.07	2.82	2.47	24.35	22.87	65	35	40 00	3486
6.51	2.86	2.47	24.30	22.89	61	39	39 50	3120
3.55	3.83	2.46	*19.17	23.00	59	41	40 00	3534
3.80	4.32	3.91	19.15	18.31	81	19	-----	2691
4.20	4.43	3.70	*19.49	20.60	86	14	42 60	3627
3.10	3.74	3.70	21.97	21.00	84	16	48 00	3648
3.37	3.41	2.83	25.87	22.00	48	52	32 00	3295

\*Deficient.

TABLE VI.—GROUND

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
2339	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.	Swift Sure Bone Meal, -----	Yeakel & Huzzerd, Norristown, -----	
3022	SWIFT & COMPANY BALTIMORE, MD.	Swift's Bone Meal Fertilizer, -----	B. E. & J. F. Cokley, Scranton, -----	
2795		Swift's Bone Meal Fertilizer, -----	Lancaster County Cooperative Potato Growers Association, Lancaster, -----	
3042		Swift's Raw Bone Meal Fertilizer, -----	Grookett Brothers, Foxchase, -----	
2721	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, Pa.	Pure Ground Bone, -----	L. R. Levensgood, Pottstown, -----	
2289	UNITED STATES GUANO CO., BALTIMORE, MD.	Raw Bone, -----	Thos. K. George, Homer City, -----	
3052		Raw Bone, -----	E. W. Rupert, Oxford, -----	
2505	YORK CHEMICAL WORKS, YORK, PA.	Pure Ground Bone, -----	Lancaster County Farmers Supply Co., Manheim, -----	
2221		Pure Ground Bone, -----	H. A. Mendenhall, Toughkenamon, -----	
2233		Raw Bone Meal, -----	Harry Pyle & Son, Chadds Ford Junction, -----	
			Average, -----	

## BONE FERTILIZERS—Concluded.

Moisture.	CHEMICAL ANALYSIS.				MECHANICAL ANALYSIS.		Selling price per ton at place of selection.	Chemist's number.
	NITROGEN.		PHOSPHORIC ACID.		Found.	Coarse.		
	Found.	Guaranteed.	Found.	Guaranteed.				
%	%	%	%	%	%	%	\$	
3.35	4.77	4.50	23.51	21.00	70	30	52 00	2239
3.60	*2.26	2.47	26.67	24.00	66	34	47 50	3022
3.20	2.48	2.47	27.40	24.00	71	29	39 10	2795
6.75	4.40	3.70	*22.46	23.00	56	44	45 00	3042
6.90	4.42	2.46	*22.60	23.00	42	58	36 00	2721
4.80	4.45	-----	*†20.23	-----	63	37	43 00	2289
2.73	*†3.47	-----	21.17	-----	63	37	42 00	3052
5.96	3.00	2.46	23.56	23.00	64	36	38 00	2505
8.04	2.98	2.48	23.06	23.00	66	34	40 00	2221
6.79	3.86	3.69	*21.33	22.00	60	40	43 00	2233
5.21	3.41	-----	23.15	-----	63	37	43 21	-----

\*Deficient.

†Compared with registered guarantee.

TABLE VII.—ACIDULATED  
Furnishing

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
2531	14% Acid Phosphate, -----	J. G. Ewing, Newton Hamilton, -----
2400	14% Acid Phosphate, -----	H. F. Gump & Son, Everett, -----
3623	14% Acid Phosphate, -----	C. E. Maneval, Morris, -----
3209	14% Acid Phosphate, -----	S. J. Moulberger, Home, -----
2399	16% Acid Phosphate, -----	H. F. Gump & Son, Everett, -----
2217	16% Acid Phosphate, -----	E. H. Keen & Son, Parkersburg, -----
3341	16% Acid Phosphate, -----	M. H. Kelly, Smethport, -----
2275	16% Acid Phosphate, -----	Rossmoyne Flouring Mills, Smicksburg, -----
5030	16% Acid Phosphate, -----	Stanley R. White, Clarke Summit, -----
2321	Basic Lime Phosphate, -----	Torrence Delong, Loganton, -----
2530	Basic Lime Phosphate, -----	J. G. Ewing, Newton Hamilton, -----
2687	Basic Lime Phosphate, -----	Anna M. Lawrence, West Chester, -----
2416	Basic Lime Phosphate, -----	G. B. Sterner, DeWart, -----
2422	Bowker's 16% Acid Phosphate, -----	Willis Koch, Pottstgrove, -----
3290	Bowker's 16% Acid Phosphate, -----	H. L. Stultz & Brother, Altoona, -----
3383	Bowker's 16% Acid Phosphate, -----	Walter Winey, Mexico, -----
2421	Bowker's Lime Phosphate, -----	Willis Koch, Pottstgrove, -----
3733	Josiah Cone's High Grade Superphosphate, -----	B. F. Specht, Stoystown, -----
2515	Lister's High Grade Acid Phosphate, -----	F. T. Baker, Lewisburg, -----
3268	Lister's High Grade Acid Phosphate, -----	Ebensburg Milling & Supply Co., Ebensburg, -----
3360	Lister's High Grade Acid Phosphate, -----	F. L. Heath, Corry, -----
2315	Lister's High Grade Acid Phosphate, -----	Knecht Milling Co., Mill Hall, -----
3269	Lister's Lime Phosphate, -----	Ebensburg Milling & Supply Co., Ebensburg, -----
2442	Lister's Lime Phosphate, -----	J. R. Meck, Meckville, -----
2584	Lister's Lime Phosphate, -----	A. F. Wentz, Jersey Shore, -----
2552	Ludlam's Ceerops High Grade Dissolved Phosphate, -----	D. B. Griffith, Wolfsburg, -----
3744	Ludlam's Ceerops High Grade Dissolved Phosphate, -----	West Salisbury Feed Co., West Salisbury, -----
3408	Nassau High Grade Superphosphate, -----	Irvin Ancker, Selinsgrove, -----
3407	Pollock's Dissolved S. C. Phosphate, -----	L. E. Rhoades, Selinsgrove, -----
2943	Pollock's Highgrade Superphosphate, -----	J. D. Garman, Orrstown, -----
3406	Pollock's Highgrade Superphosphate, -----	L. E. Rhoades, Selinsgrove, -----
2462	Pollock's Highgrade Superphosphate, -----	H. A. Snyder, Strawberry Ridge, -----
2565	Schaal-Sheldon's Soluble Phosphate, -----	J. E. Jackson, Everett, -----
3082	Susquehanna High Grade Superphosphate, -----	H. P. Passmore & Brother, Oxford, -----
2711	J. E. Tygert's 16% Acid Phosphate, -----	J. E. March, Barneston, -----
2497	J. E. Tygert's 16% Acid Phosphate, -----	E. E. Meyer, Fredericksburg, -----
2316	Wheeler's High Grade Acid Phosphate, -----	G. E. Aron, Jersey Shore, -----
2383	Wooldridge's High Grade Acid Phosphate, -----	J. A. Crilly, Imbler, -----
2346	Wooldridge's High Grade Acid Phosphate, -----	E. W. Dersham, White Deer, -----
2630	Wooldridge's High Grade Acid Phosphate, -----	C. R. Michael, Muncy, -----
2478	Wooldridge's High Grade Acid Phosphate, -----	H. V. Smith, Turbotville, -----
2384	Wooldridge's Lime Phosphate, -----	J. A. Crilly, Imbler, -----
2629	Wooldridge's Lime Phosphate, -----	C. R. Michael, Muncy, -----
2480	Wooldridge's Lime Phosphate, -----	H. V. Smith, Turbotville, -----
ARMOUR FERTILIZER WORKS, BALTIMORE, MD.		
3756	Armour's Big Crop Acid Phosphate 16%, --	Jeff Alfather, Berlin, -----
2252	Armour's Big Crop Acid Phosphate 16%, --	Great Valley Mills Co., Exton, -----
3374	Armour's Big Crop Acid Phosphate 16%, --	The Nickel Plate Flour Mills, Erie, -----
2675	Armour's Big Crop Acid Phosphate 16%, --	Reynoldsville Hardware Co., Reynoldsville, -----



## PHOSPHATE FERTILIZERS.

Phosphoric Acid.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	TOTAL.		AVAILABLE.		INSOLUBLE.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
2.78	15.59	15.00	14.57	14.00	1.02	1.00	15 25	2531
4.33	15.96	15.00	15.44	14.00	0.52	1.00	16 50	2400
4.30	15.63	15.00	14.17	14.00	1.46	1.00	18 80	3623
5.40	15.69	15.00	14.85	14.00	0.84	1.00	15.35	3209
4.69	17.34	17.00	16.80	16.00	0.54	1.00	17.00	2399
5.39	17.31	17.00	16.41	16.00	0.90	1.00	16 00	2217
1.42	17.69	17.00	16.39	16.00	1.30	1.00	25 00	3341
8.07	16.99	17.00	16.25	16.00	0.74	1.00	17 50	2275
2.98	17.88	17.00	16.70	16.00	1.18	1.00	19 25	3030
2.41	15.15	14.00	12.82	13.00	2.33	1.00	19.00	2321
1.90	15.14	14.00	13.24	13.00	1.90	1.00	15 25	2530
2.17	15.38	14.00	13.13	13.00	2.25	1.00	20 00	2687
2.01	15.26	14.00	13.22	13.00	2.04	1.00	18.00	2416
4.85	17.78	17.00	16.92	16.00	0.86	1.00	17 00	2422
1.95	16.98	17.00	16.64	16.00	0.34	1.00	20.00	3290
2.00	17.68	17.00	16.84	16.00	0.84	1.00	15.85	2883
2.00	15.28	14.00	13.48	13.00	1.80	1.00	17 00	2421
1.80	17.95	17.00	17.21	16.00	0.74	1.00	19 00	3733
1.70	17.96	17.00	17.22	16.00	0.74	1.00	18 00	2515
1.90	17.54	17.00	16.42	16.00	1.12	1.00	17 00	3268
1.36	17.25	17.00	16.45	16.00	0.80	1.00	21 00	3360
7.22	17.32	17.00	16.34	16.00	0.98	1.00	17 55	2315
1.20	15.09	14.00	13.03	13.00	2.06	1.00	17 00	3269
1.85	15.69	14.00	13.03	13.00	2.66	1.00	-----	2442
1.42	15.45	14.00	13.45	13.00	2.00	1.00	32 00	2584
2.09	17.71	17.00	17.15	16.00	0.56	1.00	16 50	2552
1.40	17.93	17.00	17.41	16.00	0.52	1.00	18 00	3744
2.60	17.20	17.00	16.74	16.00	0.46	1.00	16 00	3408
2.45	15.28	15.00	14.22	14.00	1.06	1.00	14 50	3407
6.58	16.58	17.00	16.24	16.00	0.34	1.00	-----	2943
2.21	17.34	17.00	16.98	16.00	0.36	1.00	16 25	3406
5.77	17.42	17.00	16.50	16.00	0.92	1.00	16 25	2462
2.14	18.61	17.00	17.55	16.00	1.06	1.00	17 00	2565
6.40	17.11	17.00	16.37	16.00	0.74	1.00	15 00	3082
2.00	17.99	17.00	16.97	16.00	1.02	1.00	16 05	2711
2.22	18.09	17.00	16.95	16.00	1.14	1.00	20 00	2497
4.70	16.71	17.00	*15.66	16.00	1.05	1.00	18 50	2316
4.75	17.23	17.00	16.13	16.00	1.10	1.00	16 00	2383
4.25	17.72	17.00	16.88	16.00	0.84	1.00	16.00	2346
2.46	17.97	17.00	17.09	16.00	0.88	1.00	15 00	2630
6.81	17.36	17.00	17.48	16.00	0.88	1.00	17 00	2478
2.53	15.42	14.00	13.40	13.00	2.02	1.00	16 00	2384
3.00	14.34	14.00	13.16	13.00	1.18	1.00	15 00	2629
1.55	15.04	14.00	13.14	13.00	1.90	1.00	17 00	2480
1.58	16.79	16.50	16.69	16.00	0.10	0.50	17 50	3756
5.68	16.37	16.50	16.05	16.00	0.32	0.50	18 00	2252
2.93	17.02	16.50	16.92	16.00	0.10	0.50	20 00	3374
2.50	17.37	16.50	17.09	16.00	0.28	0.50	17 25	2675

\*Deficient.

TABLE VII.—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.			
3134	Baugh's 14% Acid Phosphate, -----		West Manheim United Farmers Association, Hanover.	
2525	Baugh's 16% Acid Phosphate, -----		Belleville Flour Mills Co., Belleville, ----	
3124	Baugh's 16% Acid Phosphate, -----		Flook Brothers, Saladasburg, -----	
2280	Baugh's 16% Acid Phosphate, -----		A. P. Marshall, Smicksburg, -----	
2222	Baugh's 16% Acid Phosphate, -----		H. A. Mendenhall, Toughkenamon, -----	
2524	Baugh's Lime and Phosphate, -----		Belleville Flour Mills Co., Belleville, -----	
	BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.			
2866	Bowker's 16% Acid Phosphate, -----		J. B. Dymond, Waymarth, -----	
2298	Bowker's 16% Acid Phosphate, -----		L. Todd Owens, Apollo, -----	
3210	Bowker's 16% Acid Phosphate, -----		B. F. Uber, Home, -----	
	THE BRYANT FERTILIZER CO., ALEXANDRIA, VA.			
3232	Bryant's 16% Acid Phosphate, -----		Anthony & Kline, Shelocta, -----	
3642	Bryant's Kant Kake Phospho Tobacco, --		J. L. Alcorn, Titusville, -----	
	THE CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD.			
3073	Gro-All 16% Dissolved Phosphate, -----		Wm. C. Ball, Media, -----	
3772	Gro-All 16% Dissolved Phosphate, -----		T. J. Jacobs, Somerfield, -----	
3238	Gro-All 16% Dissolved Phosphate, -----		Mercersburg Elevator Co., Mercersburg, -----	
3740	Gro-All 16% Dissolved Phosphate, -----		N. J. Miller Co., Elk Lick, -----	
	THE COE-MORTIMER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.			
2433	E. Frank Coe's Basic Fruit and Legume Phosphate, (Basic Lime Phosphate) (Key Plow Brand). -----		Pierce Edris, Rehrersburg, -----	
3413	E. Frank Coe's Basic Fruit and Legume Phosphate, (Basic Lime Phosphate) (Key Plow Brand). -----		E. W. Evy, Lemont, -----	
2272	E. Frank Coe's Basic Fruit and Legume Phosphate, (Basic Lime Phosphate) (Key Plow Brand). -----		John W. Root, Kimberton, -----	
2332	E. Frank Coe's 16% Superphosphate, -----		Coburn Grain & Creamery Co., Coburn, -----	
2432	E. Frank Coe's 16% Superphosphate, -----		Pierce Edris, Rehrersburg, -----	
3119	E. Frank Coe's 16% Superphosphate, -----		George A. Kunkle, Montoursville, -----	
2271	E. Frank Coe's 16% Superphosphate, -----		John W. Root, Kimberton, -----	
2857	E. Frank Coe's 16% Superphosphate, -----		E. E. White, Eddelia, -----	
	THE CONSUMERS CHEMICAL CORPORATION, AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL COMPANY OF DELAWARE, NEW YORK, N. Y.			
3522	Samson Brand, -----		Wm. Bailey, Towanda, -----	
2310	Sterling Phosphate, -----		E. H. Hays, Clintondale, -----	
	THE DUMONT FERTILIZER CO., INC., PHILADELPHIA, PA.			
2638	Dumont's Acid Phosphate 16%, -----		Geo. & Harry Gensemer, Pine Grove, --	
3303	Dumont's Acid Phosphate 16%, -----		Frank P. Miller, Springtown, -----	
3137	Dumont's Acid Phosphate 16%, -----		West Manheim United Farmers Association, Hanover.	
	EAST COAST TRADING CO., BALTIMORE, MD.			
2678	Economy Acid Phosphate, -----		J. O. Campbell, Big Run, -----	

## PHOSPHATE FERTILIZERS—Continued.

PHOSPHATE FERTILIZERS—Continued.									
Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.	
	TOTAL.		AVAILABLE.		INSOLUBLE.				
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			
%	%	%	%	%	%	%	\$		
3.18	17.44	14.00	16.54	14.00	0.90	-----	14 50	3134	
4.60	17.79	16.00	17.59	16.00	0.20	-----	17 00	2525	
5.72	17.32	16.00	16.00	16.00	1.32	-----	19 00	3124	
8.63	17.41	16.00	16.15	16.00	1.26	-----	16 10	2280	
5.23	16.20	16.00	15.88	16.00	0.32	-----	17 00	2222	
1.82	14.68	13.00	13.16	13.00	1.52	-----	17.00	2524	
2.80	17.65	17.00	16.57	16.00	1.98	1.00	17 00	2866	
8.00	17.13	17.00	16.27	16.00	0.86	1.00	18 00	2298	
5.00	17.57	17.00	16.73	16.00	0.84	1.00	16 25	3210	
5.77	17.60	17.00	16.50	16.00	1.10	1.00	18 50	3232	
3.20	14.98	14.00	13.86	13.00	1.12	1.00	21 00	3642	
1.59	17.62	16.50	16.46	16.00	1.16	0.50	19 00	2673	
2.50	17.53	16.50	17.25	16.00	0.30	0.50	20 00	3772	
5.30	16.65	16.50	16.27	16.00	0.33	0.50	16 50	3238	
1.94	17.90	16.50	17.36	16.00	0.54	0.50	20 00	3740	
1.71	15.38	14.00	13.02	13.00	2.36	1.00	18 00	2433	
3.90	14.63	14.00	*12.69	13.00	1.94	1.00	16 00	2413	
2.04	15.65	14.00	13.39	13.00	2.26	1.00	20 00	2272	
8.60	16.80	17.00	16.06	16.00	0.74	1.00	16 00	2332	
2.12	17.86	17.00	17.10	16.00	0.76	1.00	-----	2432	
4.38	17.48	17.00	16.36	16.00	1.12	1.00	21 25	3119	
6.91	17.12	17.00	16.20	16.00	0.92	1.00	17 00	2271	
3.55	17.74	17.00	16.86	16.00	0.88	1.00	21 00	2857	
2.80	21.25	21.00	20.81	20.00	0.44	1.00	20 70	3522	
7.45	17.41	17.00	16.25	16.00	1.16	1.00	17 00	2219	
5.15	16.85	16.50	16.75	16.00	0.10	0.50	-----	2638	
1.50	18.27	-----	17.57	-----	0.50	-----	-----	3303	
5.12	17.57	16.50	16.51	16.00	1.06	0.50	16 00	3137	
4.32	17.37	17.00	17.23	16.00	0.14	1.00	20 00	2678	

\*Deficient.

TABLE VII.—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<b>EUREKA CHEMICAL COMPANY, BALTIMORE, MD.</b>		
2744	Eureka 16% Acid Phosphate, -----	W. H. Nesbit, McConnellsburg, -----
3064	Eureka 16% Acid Phosphate, -----	Frank Rees, Phoenixville, -----
<b>GRIFFITH &amp; BOYD CO., BALTIMORE, MD.</b>		
2707	Griffith & Boyd Co.'s Basic Lime Phosphate, -----	Parks M. Cairns, Honeybrook, -----
2607	Griffith & Boyd Co.'s Basic Lime Phosphate, -----	Mahoning Hardware & Implement Co., Punxsutawney, -----
2420	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate, -----	P. L. Bergenstock, Pottsgrove, -----
2610	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate, -----	J. E. Callahn & Sons, Montoursville, --
2294	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate, -----	G. W. Martin & So., Saltsburg, -----
2328	Griffith & Boyd Co.'s High Grade 16% Acid Phosphate, -----	H. M. Smith, Bellefonte, -----
<b>S. M. HESS &amp; BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.</b>		
2440	Processed Phospho Lime, -----	Moses W. Light, Hummelstown, -----
2443	High Grade Acid Phosphate, -----	J. W. Frantz & Son, Myerstown, -----
3195	Special High Grade Acid Phosphate, -----	Ford & Patterson, Wellsboro, -----
2437	Special High Grade Acid Phosphate, -----	Moses W. Light, Hummelstown, -----
3353	Special High Grade Acid Phosphate, -----	Chas. Miller, New Berlin, -----
2324	Special High Grade Acid Phosphate, -----	H. M. Stamm, Loganton, -----
<b>M. P. HUBBARD &amp; COMPANY, INC., BALTIMORE, MD.</b>		
3404	Hubbard's Dissolved Phosphate, -----	E. C. Mingle, Liverpool, -----
3715	Hubbard's Dissolved Phosphate, -----	A. L. Herr & Brother, Quarryville, -----
<b>THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.</b>		
2824	Hubbard's 16% Phosphate, -----	F. E. Moulthrop, Conneautville, -----
3253	Hubbard's 16% Phosphate, -----	J. T. Murphy, Clearfield, -----
2668	Hubbard's 16% Phosphate, -----	Reynoldsville Hardware Co., Reynolds-ville, -----
2888	Hubbard's 16% Phosphate, -----	A. H. Ulsh Sons, Millerstown, -----
<b>INTERNATIONAL AGRICULTURAL CORPORATION, BUFFALO, FERTILIZER WORKS BUFFALO, N. Y.</b>		
3378	Buffalo Sixteen Percent, -----	J. A. Einhiple, Crainesille, -----
3677	Buffalo Sixteen Percent, -----	Coulter & Coulter, Grove City, -----
<b>THE JARECKI CHEMICAL COMPANY, (ARMOUR OWNED), SANDUSKY, OHIO.</b>		
3392	Acid Phosphate, -----	McKean County Cooperative Sheep & Wool Growers Association, Smethport.
3396	Acid Phosphate, -----	McKean County Cooperative Sheep & Wool Growers Association, Smethport.
3249	Acid Phosphate, -----	Meyer Milling Co., Clearfield, -----
<b>KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.</b>		
2487	Grangers 16% Acid Phosphate, -----	H. K. Beard, Schaffersstown, -----
3553	Grangers 16% Acid Phosphate, -----	Jos. Dreisbach, Leighton, -----
2273	Grangers 16% Acid Phosphate, -----	Walter Simpson, Marion Center, -----
2350	Grangers 16% Acid Phosphate, -----	H. J. Sypher, Allenwood, -----



## PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	TOTAL.		AVAILABLE.		INSOLUBLE.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
2.20	17.39	16.50	16.97	16.00	0.42	0.50	17 70	2744
1.96	17.93	-----	17.45	16.00	0.48	0.50	20 00	3064
2.66	15.01	-----	13.67	13.00	1.34	1.00	-----	2707
2.30	15.69	-----	14.47	13.00	1.22	1.00	18 25	2067
5.34	17.46	17.00	17.10	16.00	0.36	1.00	18 00	2420
3.72	18.10	17.00	17.94	16.00	0.16	1.00	18 00	2610
10.64	16.31	17.00	16.01	16.00	0.30	1.00	17 20	2294
9.04	16.58	17.00	16.22	16.00	0.36	1.00	15 40	2328
1.50	15.83	14.00	13.14	13.00	2.69	1.00	18 50	2440
2.42	15.86	15.00	14.88	14.00	0.98	1.00	18 50	2443
6.69	17.03	17.00	16.12	16.00	0.91	1.00	17 00	3195
2.44	17.46	17.00	16.78	16.00	0.68	1.00	18 50	2437
5.20	17.14	17.00	16.46	16.00	0.68	1.00	12 50	2253
7.04	17.17	17.00	16.29	16.00	0.88	1.00	21 50	2324
5.35	17.41	-----	16.57	16.00	0.84	1.00	16 50	3404
6.33	16.88	-----	16.76	16.00	0.12	1.00	15 50	3715
1.35	17.58	17.00	17.24	16.00	0.34	1.00	21 00	2824
1.91	18.43	17.00	17.87	16.00	0.56	1.00	18 00	3253
2.02	18.89	17.00	18.23	16.00	0.66	1.00	15 75	2068
2.05	17.63	17.00	16.91	16.00	0.72	1.00	17 00	2838
2.30	17.74	17.00	16.24	16.00	1.50	1.00	19 00	3378
3.53	18.32	17.00	17.58	16.00	0.74	1.00	19 00	3677
4.05	16.43	17.00	16.31	16.00	0.12	1.00	16 50	3392
4.80	16.70	17.00	16.58	16.00	0.12	1.00	16 50	3396
1.75	16.81	17.00	16.35	16.00	0.46	1.00	21 50	3249
2.00	16.88	17.00	*15.56	16.00	1.32	1.00	15 90	2487
1.45	17.81	17.00	16.87	16.00	0.94	1.00	16 00	3553
8.92	17.36	17.00	*15.64	16.00	1.72	1 00	16 50	2273
7.90	16.02	17.00	15.94	16.00	0.08	1.00	16 00	2350

\*Deficient.

TABLE VII.—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.	Sample taken From—
3722	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA. High Grade Acid Phosphate, -----	E. B. Fritz & Sons Co., Quarryville, -----
3075	LANCASTER CHEMICAL COMPANY, LANCASTER, PA. No. 16 Phosphoric Acid Special, -----	Bunting Brothers, Oxford, -----
3711	No. 16 Phosphoric Acid Special, -----	R. C. Collins, Quarryville, -----
2947	LEBANON FERTILIZER WORKS, LEBANON, PA. Levan's Superphosphate 0-16-0, -----	Moses K. Horst, Scotland, -----
2589	Levan's Superphosphate 0-16-0, -----	Solomon & Waltz, Antes Fort, -----
3015	Levan's Superphosphate 0-16-0, -----	A. B. Walker, Hamlin, -----
2514	Levan's Superphosphate 0-16-0, -----	J. H. Wingert, Lewisburg, -----
3483	THE MILLER FERTILIZER CO., BALTIMORE, MD. Miller's Acid Phosphate 16%, -----	J. W. Cook, Ariel, -----
2676	Miller's Acid Phosphate 16%, -----	H. J. Beam, Big Run, -----
3109	Miller's Acid Phosphate 16%, -----	H. E. Meyers, Muney, -----
2885	Miller's Acid Phosphate 16%, -----	Thompson Auto Co., Thompsontown, -----
2831	Miller's Acid Phosphate 16%, -----	Thompson & Glenn, Butler, -----
3409	NITRATE AGENCIES COMPANY, BALTIMORE, MD. Naco Brand High Grade 16% Acid Phosphate, -----	G. K. Sholl, Mt. Pleasant Mills, -----
3629	Naco Brand High Grade 16% Acid Phosphate, -----	A. R. Johnson, Wellsboro, -----
2752	G. OBER & SONS COMPANY, BALTIMORE, MD. Ober's High Grade Acid Phosphate, -----	D. Blocher & Co., Gettysburg, -----
2335	Ober's High Grade Acid Phosphate, -----	Farmers Exchange, Millinburg, -----
2770	OYLER & SPANGLER FERTILIZER WORKS, INC., GETTYSBURG, PA. O. & S. 16%, -----	Chas. F. Asper, Aspers, -----
3141	O. & S. 16%, -----	M. J. Sheffer, Hanover, -----
2396	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., BALTIMORE, MD. Patapasco Crow Brand Lime Phosphate, -----	Francis Baker, Everett, -----
2811	Patapasco Crow Brand Lime Phosphate, -----	A. L. Knaub, Dillsburg, -----
3457	Patapasco Crow Brand Lime Phosphate, -----	Geo. A. Speck, Lickdale, -----
3231	Patapasco High Grade Acid Phosphate, -----	Anthony & Kline, Shelocta, -----
2392	Patapasco High Grade Acid Phosphate, -----	Francis Baker, Everett, -----
2894	Patapasco High Grade Acid Phosphate, -----	Frank Hubler, Ellitsburg, -----
3277	Patapasco High Grade Acid Phosphate, -----	F. P. Waite, Tyrone, -----
2397	Patapasco Pure Dissolved S. C. Phosphate, -----	Francis Baker, Everett, -----
3495	PATUXENT GUANO COMPANY, BALTIMORE, MD. Patuxent High Grade Acid Phosphate, -----	F. M. Bitler, Danville, -----
2733	Patuxent High Grade Acid Phosphate, -----	C. W. Judy, Parkersburg, -----
2431	Patuxent High Grade Acid Phosphate, -----	H. A. Snyder, Strawberry Ridge, -----
2352	Patuxent Lime Phosphate, -----	W. H. Snyder, Winfield, -----

## PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	TOTAL.		AVAILABLE.		INSOLUBLE.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
3.85	17.91	17.00	17.83	16.00	0.08	1.00	-----	3722
5.30	17.28	-----	16.22	16.00	1.06	1.00	16 00	3075
5.35	17.17	-----	*15.63	16.00	1.54	1.00	16 00	3711
6.07	16.58	17.00	16.24	16.00	0.34	1.00	17 00	2947
3.25	16.77	17.00	16.63	16.00	0.14	1.00	17 50	2589
1.91	17.60	17.00	17.26	16.00	0.34	1.00	16 00	3015
3.65	17.08	17.00	16.98	16.00	0.10	1.00	19 50	2514
2.00	17.99	16.50	17.67	16.00	0.32	0.50	16 00	3483
1.86	17.63	16.50	17.17	16.00	0.46	0.50	-----	2676
4.67	16.38	16.50	*15.73	16.00	0.65	0.50	18 00	3109
2.13	17.17	16.50	16.43	16.00	0.74	0.50	15 75	2885
1.40	17.44	16.50	16.88	16.00	0.56	0.50	-----	2831
4.72	17.18	17.00	17.12	16.00	0.06	1.00	18 40	3409
5.35	17.13	17.00	17.07	16.00	0.06	1.00	-----	3629
7.78	17.54	17.00	17.36	16.00	0.18	1.00	17 00	2752
9.28	16.51	17.00	16.21	16.00	0.30	1.00	18 25	2335
5.30	17.26	16.50	16.56	16.00	0.70	0.50	16 00	2770
8.27	16.27	16.50	*15.20	16.00	1.07	0.50	16 00	3141
2.84	14.96	14.00	13.14	13.00	1.82	1.00	18 00	2396
2.35	15.52	14.00	13.27	13.00	2.25	1.00	-----	2811
1.80	15.08	14.00	13.04	13.00	2.04	1.00	20 00	3457
4.00	16.80	17.00	16.38	16.00	0.42	1.00	18 50	3231
10.10	16.02	17.00	*14.78	16.00	1.24	1.00	17 00	2392
1.62	17.73	17.00	16.87	16.00	0.86	1.00	17 85	2894
1.54	17.23	17.00	16.75	16.00	0.48	1.00	17 00	3277
5.05	15.47	15.00	14.43	14.00	1.04	1.00	16 00	2397
4.85	17.83	17.00	17.75	16.00	0.08	1.00	16 50	3495
2.45	17.63	17.00	16.89	16.00	0.74	1.00	14 90	2733
4.25	17.91	17.00	17.47	16.00	0.44	1.00	16 00	2431
3.25	14.34	-----	13.24	13.00	1.10	1.00	20 00	2352

\*Deficient.

TABLE VII.—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	PENNSYLVANIA FARMERS COOPERATIVE FEDERATION, INC., HARRISBURG, PA.			
2546	P. F. C. F. 16%	Acid Phosphate, -----	Bedford County Farmers Cooperative Association, Everett.	
2718	P. F. C. F. 16%	Acid Phosphate, -----	E. K. Lloyd, Elverson, -----	
2521	P. F. C. F. 16%	Acid Phosphate, -----	J. M. Stroup, Lewistown, -----	
2371	P. F. C. F. 16%	Acid Phosphate, -----	L. D. Zehner, Tamaqua, -----	
2640	P. F. C. F. 16%	Acid Phosphate, -----	L. D. Zehner, Tamaqua, -----	
	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.			
3197	Piedmont 16%	Acid Phosphate, -----	Farmers Feed Store, Wellsboro, -----	
2902	Piedmont 16%	Acid Phosphate, -----	Hershey Department Store, Hershey, -----	
3511	Piedmont 16%	Acid Phosphate, -----	E. H. Johnston, Ulster, -----	
2951	Piedmont 16%	Acid Phosphate, -----	Walker, Diehl & Walker, Chambersburg, -----	
	RASIN-MONUMENTAL COMPANY, BALTIMORE, MD.			
3713	Rasin's 16%	Acid Phosphate, -----	S. Brook & Brother, Quarryville, -----	
3194	Rasin's 16%	Acid Phosphate, -----	Roy Dunham, Wellsboro, -----	
3353	Rasin's 16%	Acid Phosphate, -----	Leonard Ritter, St. Marys, -----	
3712	Rasin's Phospho Tobacco, -----		S. Brook & Brother, Quarryville, -----	
3586	Rasin's Phospho Tobacco, -----		H. B. Low & Son, Orangeville, -----	
	READING BONE FERTILIZER CO., READING, PA.			
2258	16%	Clear Acid Phosphate, -----	Great Valley Mills Co., Exton, -----	
2492	16%	Clear Acid Phosphate, -----	Palmyra Quarry Farms, Palmyra, -----	
2538	16%	Clear Acid Phosphate, -----	Pomona Purchasing Committee, Mifflintown, -----	
2425	16%	Clear Acid Phosphate, -----	William Simington, Pottsgrove, -----	
	READING CHEMICAL COMPANY, READING, PA.			
3382	Reading Clear Acid Phosphate, -----		Dallas Brooks, Tidouite, -----	
3112	Reading Clear Acid Phosphate, -----		A. Robins, Muncy, -----	
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.			
3020	Royster's 13%	Lime Phosphate, -----	W. C. Headly, Waymarth, -----	
2624	Royster's 13%	Lime Phosphate, -----	McConnell Brothers, Hughesville, -----	
3500	Royster's 16%	Acid Phosphate, -----	Farmers Cooperative Union, Wysox, -----	
2623	Royster's 16%	Acid Phosphate, -----	McConnell Brothers, Hughesville, -----	
3357	Royster's 16%	Acid Phosphate, -----	Smith Brothers, Inc., Bradford, -----	
2873	Royster's 16%	Acid Phosphate, -----	Darius Waite, Bellefonte, -----	
3192	Royster's 18%	Acid Phosphate, -----	Roy Dunham, Wellsboro, -----	
3189	Royster's 18%	Acid Phosphate, -----	W. H. Schneider, Lloyd, -----	
	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.			
3443	Swift-Sure Dissolved S. C. Rock, -----		Stephen M. Stoltzfus, Morgantown, -----	
	SWIFT & COMPANY, BALTIMORE, MD.			
3675	Swift's High Grade Acid Phosphate Fertilizer, -----		C. M. Amou, Transfer, -----	
2742	Swift's High Grade Acid Phosphate Fertilizer, -----		Bedford County Farmers Cooperative Association, Everett.	
2794	Swift's High Grade Acid Phosphate Fertilizer, -----		Lancaster County Cooperative Potato Growers Association, Lancaster.	
2850	Swift's High Grade Acid Phosphate Fertilizer, -----		Marvin L. Miller, Clark Summit, -----	



## PHOSPHATE FERTILIZERS—Continued.

PHOSPHATE FERTILIZERS—Continued.									
Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.	
	Total.		Available.		Insoluble.				
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.			
%	%	%	%	%	%	%	\$		
5.25	17.82	17.00	17.08	16.00	0.74	1.00	18 00	2546	
2.80	18.33	17.00	17.41	16.00	0.92	1.00	17 00	2718	
2.75	18.19	17.00	17.63	16.00	0.56	1.00	16 90	2521	
8.60	17.85	17.00	16.23	16.00	1.02	1.00	16 00	2371	
6.15	17.31	17.00	17.21	16.00	0.10	1.00	16 00	2640	
6.06	17.54	17.00	16.42	16.00	1.12	1.00	20 00	3197	
6.88	17.27	17.00	16.17	16.00	1.10	1.00	18 00	2902	
1.48	18.02	17.00	17.46	16.00	0.56	1.00	18 00	3511	
7.75	16.77	17.00	*15.47	16.00	1.30	1.00	16 50	2951	
2.80	17.67	17.00	17.11	16.00	0.56	1.00	16 00	2713	
5.22	17.91	17.00	17.83	16.00	0.08	1.00	18.60	3194	
1.30	17.50	17.00	16.76	16.00	0.74	1.00	18 00	3253	
4.25	15.27	14.00	14.19	13.00	1.08	1.00	16 00	2712	
5.53	14.57	14.00	*12.69	13.00	1.88	1.00	17 50	3556	
8.50	15.68	17.00	*15.32	16.00	0.36	1.00	19 00	2258	
2.42	18.56	17.00	18.22	16.00	0.34	1.00	-----	24 2	
2.25	18.00	17.00	17.62	16.00	0.38	1.00	15 98	2538	
3.41	16.99	17.00	16.43	16.00	0.56	1.00	18 00	2425	
4.57	16.71	17.00	16.43	16.00	0.28	1.00	20 25	3382	
6.45	16.71	17.00	16.01	16.00	0.70	1.00	18.50	3112	
2.35	15.63	13.50	13.99	13.00	1.64	0.50	15 00	3020	
1.25	14.27	13.50	13.49	13.00	0.78	0.50	19 00	2624	
1.42	18.27	16.50	16.37	16.00	1.90	0.50	19 00	3550	
4.82	17.62	16.50	17.52	16.00	0.10	0.50	19 00	2023	
1.10	17.09	16.50	16.55	16.00	0.54	0.50	20 00	3357	
1.37	18.69	16.50	17.43	16.00	1.26	0.50	18 00	2573	
3.59	18.67	18.50	18.35	18.00	0.32	0.50	19.00	3192	
4.80	18.84	18.50	18.12	18.00	0.72	0.50	20 50	3189	
7.10	17.35	-----	17.05	16.00	0.30	1.00	-----	3443	
8.40	16.72	16.00	16.68	16.00	0.04	-----	19 00	3675	
2.74	16.85	16.00	16.77	16.00	0.08	-----	17 00	2742	
4.31	16.48	16.00	16.42	16.00	0.06	-----	14 90	2794	
4.27	17.09	16.00	16.95	16.00	0.14	-----	17.90	2850	

\*Deficient.

TABLE VII.—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	I. P. THOMAS & SON COMPANY, PHILADELPHIA, PA.			
3591	16%	Acid Phosphate, -----	Frank Hartman, Forks, -----	
2426	16%	Acid Phosphate, -----	F. E. Martz, Washingtonville, -----	
2277	16%	Acid Phosphate, -----	Plumville Supply Co., Plumville, -----	
2500	16%	Acid Phosphate, -----	Ezra Risser, Lawn, -----	
	UNITED STATES GUANO CO., BALTI- MORE, MD.			
2848	Standard United States 16%	Extra High Grade Acid Phosphate.	G. R. Clark, Scranton, -----	
2290	Standard United States 16%	Extra High Grade Acid Phosphate.	Thos. K. George, Homer City, -----	
	WASHINGTON, ALEXANDER & COOKE CO., CHARLES TOWN, W. VA.			
2762	Wacco Superphosphate,	-----	E. S. Kelly, Gettysburg, -----	
3719	Wacco Superphosphate,	-----	Quarryville Farmers Association, Quar- ryville.	
	VIRGINIA-CAROLINA CHEMICAL CO. OF DELAWARE, BALTIMORE, MD. & NEW YORK, N. Y.			
3650	V. C. 16%	Acid Phosphate, -----	Cochranton Milling Co., Cochranton, ---	
3211	V. C. 16%	Acid Phosphate, -----	T. J. Cressley, Glen Campbell, -----	
2380	V. C. 16%	Acid Phosphate, -----	Blair Knisely, Reynoldsdale, -----	
3240	V. C. 16%	Acid Phosphate, -----	W. B. Rauck, Warfordsburg, -----	
3651	V. C. XXX	Concentrated Phosphate, ---	Cochranton Milling Co., Cochranton, ---	
	YORK CHEMICAL WORKS, YORK, PA.			
3662	16%	Acid Phosphate, -----	J. A. Adams, Mercers, -----	
2506	16%	Acid Phosphate, -----	Lancaster County Farmers Supply Co., Manheim.	
2219	16%	Acid Phosphate, -----	H. A. Mendenhall, Toughkenamon, ---	
3142	16%	Acid Phosphate, -----	Red Lion Farmers Association, Red Lion.	
2354	16%	Acid Phosphate, -----	Peter Remer & Son, Lewisburg, -----	
			Average, -----	

## LANEUS FERTILIZERS—Concluded.

PLANEUS FERTILIZERS - Continued.								
Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
5.45	18.24	16.50	17.82	16.00	0.42	0.50	18 50	3591
7.86	17.48	16.50	16.72	16.00	0.76	0.50	16 62	2426
10.29	17.09	16.50	16.51	16.00	0.58	0.50	18.80	2277
3.45	18.25	16.50	17.59	16.00	0.66	0.50	19 00	2500
3.50	19.04	16.50	18.88	16.00	0.16	0.50	27 00	2848
8.32	17.91	16.50	17.77	16.00	0.14	0.50	17 00	2290
11.22	16.15	17.00	16.01	16.00	0.14	1.00	15 50	2762
3.63	16.86	17.00	16.72	16.00	0.14	1.00	16 00	3719
1.57	18.28	17.00	17.46	16.00	0.82	1.00	17 00	3650
4.50	17.97	17.00	17.35	16.00	0.62	1.00	21 00	3211
7.03	17.27	17.00	16.57	16.00	0.70	1.00	18 00	2280
4.69	17.99	-----	17.03	16.00	0.96	1.00	16 00	3240
1.77	22.50	21.00	21.16	20.00	1.34	1.00	19 00	3651
3.00	17.74	16.00	17.64	16.00	0.10	-----	19 00	3692
2.07	17.85	16.00	17.59	16.00	0.26	-----	16 00	2506
8.32	16.68	16.00	16.38	16.00	0.30	-----	17 00	2219
8.34	16.14	16.00	16.10	16.00	0.04	-----	17 25	3142
7.01	17.32	16.00	16.70	16.00	0.62	-----	19 50	2354
4.11	17.06	-----	16.25	-----	0.81	-----	17 72	-----

TABLE VIII.—ROCK AND  
Furnishing Phos

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
2562	Big Crop Phosphate, -----	J. E. Jackson, Everett, -----
3084	Big Crop Phosphate, -----	H. P. Passmore & Brother, Oxford, -----
2781	Big Crop Phosphate, -----	Wm. S. Schaffer, Leeport, -----
2347	Boss Potash Fertilizer, -----	Frank Allen, Allenwood, -----
2216	Boss Potash Fertilizer, -----	E. H. Keen & Son, Parkeburg, -----
3177	Bowker's Great Crop, -----	Mackey & Yerkes, Oxford, -----
2376	Bowker's Great Crop, -----	Geo. Maurer, Pitman, -----
3534	Bradley's Phosphate and Potash, -----	Grover Trading Co., Canton, -----
3076	Josiah Cope's Universal Mixture, -----	Bunting Brothers, Oxford, -----
3506	Dissolved Phosphate and Potash, -----	Billings & Kelder, New Albany, -----
3258	Disso'ved Phosphate and Potash, -----	W. D. Gates, Curvsville, -----
3709	Dissolved Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
3282	W. S. Farmer & Co's B. and P. Phosphate, -----	M. R. Brumbaugh & Son, Martinsburg, -----
2398	Gem Alkaline Phosphate, -----	H. F. Gump & Son, Eveyst, -----
3319	Great Crop Grower, -----	David A. Heim, Trexlertown, -----
3101	Lister's Atlas Brand Alkaline Fertilizer, -----	Freys Hardware, Muncy, -----
3405	Lister's Grain and Grass Fertilizer, -----	Herman & Seiler, Selinsgrove, -----
2532	Lister's Grain and Grass Fertilizer, -----	R. F. McLain, Moscow, -----
3267	Lister's Potash Mixture, -----	Ebensburg Milling & Supply Co., Ebensburg, -----
2313	Lister's Potash Mixture, -----	Knecht Milling Co., Mill Hall, -----
2540	Pollock's Soluble Phosphate, -----	A. S. Raffensburg & Son, E. Waterford, -----
2965	Star Phosphate, -----	R. C. Wilson, Dayton, -----
2518	Superior Phosphate and Potash, -----	C. E. Drake, Towanda, -----
3707	Three Star Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
2713	J. E. Tygert's Fearless Fertilizer, -----	J. E. March, Barneston, -----
2712	J. E. Tygert's Soluble Phosphate and Potash, -----	J. E. March, Barneston, -----
3086	Victory Phosphate and Potash, -----	H. P. Passmore & Brother, Oxford, -----
2412	Victory Phosphate and Potash, -----	Wolfe & Huffman, Watsonstown, -----
3243	Woolridge's American Potash Mixture, -----	Cyrus Brumbaugh, New Enterprise, -----
2244	Woolridge's Grain and Grass Producer, -----	E. W. Dersham, White Deer, -----
2809	Woolridge's Grain and Grass Producer, -----	Robert Wentz, Wellsville, -----
3491	XXX Phosphate and Potash, -----	A. A. Chamberlain, Thornhurst, -----
2215	XXX Phosphate and Potash, -----	E. H. Keen & Son, Parkesburg, -----
3732	XXX Phosphate and Potash, -----	B. F. Specht, Stoystown, -----
ARMOUR FERTILIZER WORKS, BALTIMORE, MD.		
3387	Armour's Big Crop 10-5, -----	J. G. Jamieson Lumber Co., Tionesta, -----
3314	Armour's Phosphate and Potash No. 1, -----	Kane Milling & Grocery Co., Kane, -----
2942	Armour's Phosphate and Potash No. 1, -----	Wm. A. Nickels & Son, Shippensburg, -----
2655	Armour's Phosphate and Potash No. 1, -----	Jos. Rudelitch, Lehighton, -----
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
2526	Baugh's 12-5 Phosphate and Potash Mixture, -----	Belleville Flour Mills Co., Belleville, -----
2576	Baugh's 12-5 Phosphate and Potash Mixture, -----	Boettinger & Wargo, Danville, -----
3736	Baugh's 12-5 Phosphate and Potash Mixture, -----	C. H. Schmucker, Friedens, -----
2395	Baugh's Soluble Alkaline Super Phosphate, -----	Francis Baker, Everett, -----
3659	Baugh's Soluble Alkaline Super Phosphate, -----	W. S. Minnium, Meadville, -----
3695	Baugh's Soluble Alkaline Super Phosphate, -----	H. M. Walton, Belfry, -----
BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
2864	Bowker's Ten and Eight, -----	J. B. Dymond, Waymarth, -----
3563	Bowker's Ten and Eight, -----	A. C. Eckrote & Brother, Sybertsville, -----
3221	Bowker's Ten and Eight, -----	H. F. Uplinger, Reynoldsville, -----

## POTASH FERTILIZERS.

phoric Acid and Potash.

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	\$	
4.15	9.06	9.00	8.40	8.00	0.66	1.00	5.19	5.00	5.19	-----	24 00	2562
6.46	8.67	9.00	8.11	8.00	0.56	1.00	5.30	5.00	5.30	-----	23 00	3084
3.20	10.41	9.00	9.53	8.00	0.88	1.00	*4.57	5.00	4.67	-----	-----	2781
7.20	8.73	9.00	8.35	8.00	0.38	1.00	5.10	5.00	5.10	-----	23 25	2347
6.47	8.52	9.00	8.00	8.00	0.52	1.00	5.38	5.00	5.38	-----	21 00	2216
6.03	8.88	9.00	8.40	8.00	0.48	1.00	5.33	5.00	5.33	-----	24 00	3177
6.64	8.70	9.00	8.26	8.00	0.44	1.00	5.71	5.00	5.71	-----	-----	2376
3.70	11.30	11.00	10.40	10.00	0.90	1.00	2.25	2.00	2.25	-----	23 50	3534
5.80	8.52	9.00	8.06	8.00	0.46	1.00	5.55	5.00	5.55	-----	22 00	3076
4.05	12.41	11.00	10.95	10.00	1.46	1.00	2.52	2.00	2.52	-----	23 00	3509
2.56	11.02	1.00	10.38	10.00	0.64	1.00	2.53	2.00	2.53	-----	23 50	3238
5.45	11.60	11.00	11.06	10.00	0.54	1.00	2.02	2.00	2.02	-----	21 50	3709
3.60	11.75	11.00	10.89	10.00	0.86	1.00	2.51	2.00	2.51	-----	23 00	3282
4.71	7.68	7.00	7.08	6.00	0.60	1.00	3.21	3.00	3.21	-----	20 50	2398
4.71	8.64	9.00	8.14	8.00	0.50	1.00	5.26	5.00	5.26	-----	24 00	3319
8.70	12.90	13.00	12.36	12.00	0.54	1.00	5.02	5.00	5.02	-----	25 00	3101
6.30	9.83	11.00	*9.19	10.00	0.64	1.00	2.92	2.00	2.92	-----	23 00	345
2.59	10.97	11.00	10.21	10.00	0.76	1.00	2.33	2.00	0.70	1.63	28 90	2852
4.47	8.67	9.00	8.19	8.00	0.48	1.00	5.12	5.00	5.12	-----	23 00	3267
7.55	8.99	9.00	8.45	8.00	0.54	1.00	*4.70	5.00	4.70	-----	25 25	2313
4.56	10.88	11.00	10.02	10.00	0.86	1.00	2.45	2.00	2.45	-----	26 50	2540
2.34	9.21	9.00	8.67	8.00	0.54	1.00	3.93	3.00	3.93	-----	26 25	2965
2.85	13.51	13.00	12.41	12.00	1.10	1.00	3.15	3.00	1.90	1.25	-----	3518
5.75	10.89	11.00	10.37	10.00	0.52	1.00	4.47	4.00	4.47	-----	23 00	3707
5.04	13.51	13.00	12.75	12.00	0.76	1.00	3.41	3.00	3.41	-----	24 30	2713
4.15	10.65	11.00	9.93	10.00	0.72	1.00	2.60	2.00	2.60	-----	21 55	2712
8.97	13.02	13.00	12.14	12.00	0.88	1.00	5.29	5.00	5.29	-----	26 00	3086
5.74	12.51	13.00	*11.75	12.00	0.76	1.00	5.16	5.00	5.16	-----	24 25	2412
6.20	10.93	11.00	10.41	10.00	0.52	1.00	2.35	2.00	2.35	-----	20 00	3243
8.20	10.70	11.00	10.16	10.00	0.54	1.00	4.18	4.00	4.18	-----	24 00	2544
7.35	10.69	11.00	10.07	10.00	0.62	1.00	4.00	4.00	4.00	-----	-----	2509
4.35	11.49	11.00	10.73	10.00	0.76	1.00	8.36	8.00	8.36	-----	28 00	3491
7.42	10.49	11.00	9.85	10.00	0.64	1.00	8.11	8.00	8.11	-----	28 50	2215
2.55	11.66	11.00	10.98	10.00	0.68	1.00	8.76	8.00	8.76	-----	28 00	3732
3.57	10.28	10.50	10.24	10.00	0.04	0.50	5.40	5.00	5.40	-----	30 00	3587
2.39	9.90	10.50	*9.74	10.00	0.16	0.50	2.08	2.00	2.08	-----	30 00	3344
6.50	10.00	10.50	9.82	10.00	0.18	0.50	2.66	2.00	2.66	-----	22 00	2942
3.99	9.71	10.50	*9.43	10.00	0.28	0.50	2.30	2.00	2.30	-----	23 00	2655
6.15	12.97	12.00	12.43	12.00	0.54	-----	5.35	5.00	5.35	-----	27 00	2526
8.90	12.45	12.00	11.97	12.00	0.48	-----	5.24	5.00	5.24	-----	27 00	2576
4.71	12.93	12.00	12.49	12.00	0.44	-----	5.01	5.00	5.01	-----	22 00	3736
8.32	10.42	10.00	10.06	10.00	0.36	-----	1.89	2.00	1.89	-----	24 00	2895
5.51	10.80	10.00	10.50	10.00	0.30	-----	2.32	2.00	2.32	-----	29 00	3059
8.10	11.03	10.00	10.36	10.00	0.72	-----	2.35	2.00	2.35	-----	25 00	3096
4.63	11.34	11.00	10.46	10.00	0.88	1.00	8.31	8.00	8.31	-----	27 00	2864
3.22	11.88	11.00	11.36	10.00	0.52	1.00	9.30	8.00	9.30	-----	-----	3563
6.30	10.90	11.00	10.16	10.00	0.74	1.00	*6.24	8.00	6.24	-----	32 50	3221

\*Deficient.



TABLE VIII.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
THE CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD.		
3284	Gro-All Commonwealth, -----	M. R. Brumbaugh & Son, Martinsburg, --
2529	Gro-All Commonwealth, -----	R. K. Yoder, Belleville, -----
2589	Gro-All Pioneer, -----	Francis Baker, Everett, -----
2954	Gro-All Potash Special, -----	Strickler & Gillon, Greencastle, -----
2528	Gro-All Potash Special, -----	R. K. Yoder, Belleville, -----
THE COE-MORTIMER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL CO., NEW YORK, N. Y.		
3116	E. Frank Coe's Big 15 Mixture, -----	George A. Kunkle, Montoursville, -----
2783	E. Frank Coe's Big 15 Mixture, -----	Morris N. Phillips, Leesport, -----
2388	E. Frank Coe's Famous Prize Brand, -----	Geo. W. Dibert, Bedford, -----
2434	E. Frank Coe's Famous Prize Brand, -----	Harry P. Dubble, Myerstown, -----
3117	E. Frank Coe's Famous Prize Brand, -----	George A. Kunkle, Montoursville, -----
3186	E. Frank Coe's Ten and Eight, -----	E. Day, Brookside, -----
THE DUMONT FERTILIZER CO., INC., PHILADELPHIA, PA.		
3418	Dumont's 0-10-2, -----	C. L. Bowersox, Middleburg, -----
EAST COAST TRADING CO., BALTI- MORE, MD.		
2677	E-Economy Brand No. 3, -----	J. O. Campbell, Big Run, -----
EASTERN GUANO COMPANY, NEW YORK, N. Y.		
2956	Eastern Penn Special, -----	Omwake Brothers, Greencastle, -----
FARMERS FERTILIZER WORKS, ELIZA- BETHTOWN, PA.		
2906	Farmers Economy, -----	W. B. Gouchnauer, Lititz, -----
GRIFFITH & BOYD CO., BALTIMORE, MD.		
2560	Griffith & Boyd Co.'s Special Grain Grower, -----	G. R. Lutz, Lutzville, -----
2473	Griffith & Boyd Co.'s XX Potash Manure, -----	Hartley & Blaine, Turbotville, -----
2561	Griffith & Boyd Co.'s XX Potash Manure, -----	G. R. Lutz, Lutzville, -----
2296	Griffith & Boyd Co.'s XX Potash Manure, -----	G. W. Martin & Co., Saltsburg, -----
S. M. HESS & BROTHER, INC., SUB- SIDIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL CO., NEW YORK, N. Y.		
2555	Soluble Phosphate and Potash, -----	G. W. Davis, Alum Bank, -----
2438	Soluble Phosphate and Potash, -----	Moses W. Light, Hummelstown, -----
2536	Soluble Phosphate and Potash, -----	John M. Musser, Mifflintown, -----
2325	Soluble Phosphate and Potash, -----	H. M. Stamm, Loganton, -----
THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.		
3576	Hubbard's High Grade Potash Mixture, --	L. Hill, Beach Haven, -----
2895	Hubbard's High Grade Potash Mixture, --	E. A. Stambaugh, Green Park, -----
2963	Hubbard's High Grade Potash Mixture, --	R. C. Wilson, Dayton, -----
2653	Hubbard's Phosphate and Potash, -----	Kemmerer Hardware Co., Lehighton, --
2672	Hubbard's Phosphate and Potash, -----	Reynoldsville Hardware Co., Reynolds- ville.
2897	Hubbard's Phosphate and Potash, -----	E. A. Stambaugh, Green Park, -----
INTERNATIONAL AGRICULTURAL COR- PORATION, BUFFALO FERTILIZER WORKS, BUFFALO, N. Y.		
3375	Buffalo Phosphate and Potash, -----	J. A. Elnihple, Crainesville, -----
3376	I. A. C. Extra P. and P., -----	J. A. Elnihple, Crainesville, -----

## POTASH FERTILIZERS—Continued.

PHOSPHORIC ACID.														POTASH.				Selling price per ton at place of selection.	Chemist's number.
Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.										
Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.														
Moisture.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.									
%	%	%	%	%	%	%	%	%	%	%	%	\$							
4.83	11.05	10.50	10.79	10.00	0.26	0.50	2.64	2.00	2.64	-----	-----	22 00	3284						
5.60	10.80	10.50	10.46	10.00	0.34	0.50	2.22	2.00	2.22	-----	-----	22 75	2529						
4.92	8.38	8.50	7.93	8.00	0.45	0.50	5.62	5.00	5.62	-----	-----	23 80	2389						
7.44	13.62	12.50	12.92	12.00	0.70	0.50	*4.43	5.00	4.43	-----	-----	29 00	2954						
5.52	12.63	12.50	12.19	12.00	0.44	0.50	5.69	5.00	5.69	-----	-----	27 00	2528						
7.61	12.95	13.00	11.97	12.00	0.98	1.00	3.32	3.00	3.32	-----	-----	30 00	3116						
3.70	13.85	13.00	12.97	12.00	0.88	1.00	3.36	3.00	3.36	-----	-----	27 83	2783						
7.19	10.75	11.00	10.11	10.00	0.64	1.00	2.07	2.00	2.07	-----	-----	22 00	2388						
4.95	11.05	11.00	10.01	10.00	1.04	1.00	2.61	2.00	2.61	-----	-----	27 00	2434						
6.91	10.63	11.00	9.99	10.00	0.64	1.00	2.58	2.00	2.58	-----	-----	26 75	3117						
8.83	11.03	11.00	10.37	10.00	0.66	1.00	*7.68	8.00	7.68	-----	-----	31 50	3186						
6.85	13.65	11.00	12.57	10.00	1.08	1.00	2.11	2.00	2.11	-----	-----	22 30	3418						
5.00	13.79	13.00	13.35	12.00	0.44	1.00	*4.79	5.00	3.00	1.79	-----	28 00	2677						
3.76	11.25	10.50	10.79	10.00	0.46	0.50	4.36	4.00	4.36	-----	-----	25 00	2959						
5.15	10.77	11.00	10.45	10.00	0.32	1.00	2.90	3.00	2.90	-----	-----	24 00	2906						
3.43	11.06	11.00	10.12	10.00	0.94	1.00	2.52	2.00	2.52	-----	-----	27 00	2560						
7.40	10.29	11.00	10.05	10.00	0.24	1.00	5.25	5.00	5.25	-----	-----	27 00	2473						
4.87	10.73	11.00	10.31	10.00	0.42	1.00	5.09	5.00	5.09	-----	-----	25 61	2561						
9.26	9.53	11.00	*9.23	10.00	0.30	1.00	5.16	5.00	5.16	-----	-----	26 50	2296						
4.25	10.97	11.00	10.35	10.00	0.62	1.00	2.38	2.00	2.38	-----	-----	23 75	2555						
5.25	10.72	11.00	9.84	10.00	0.88	1.00	2.60	2.00	2.60	-----	-----	23 75	2438						
4.80	10.78	11.00	10.06	10.00	0.72	1.00	2.39	2.00	2.39	-----	-----	23 50	2536						
8.17	10.40	11.00	9.82	10.00	0.58	1.00	2.09	2.00	2.09	-----	-----	22 75	2325						
5.50	11.72	11.00	10.88	10.00	0.84	1.00	4.49	4.00	4.49	-----	-----	23 30	2576						
3.80	12.44	11.00	11.18	10.00	1.26	1.00	4.79	4.00	4.79	-----	-----	23 30	2895						
3.40	11.80	11.00	10.72	10.00	1.08	1.00	4.29	4.00	4.29	-----	-----	28 75	2963						
4.80	12.53	11.00	11.54	10.00	1.04	1.00	2.37	2.00	2.37	-----	-----	25 50	2653						
4.20	12.77	11.00	11.51	10.00	1.26	1.00	2.51	2.00	2.51	-----	-----	23 50	2672						
4.63	12.41	11.00	11.35	10.00	1.06	1.00	3.35	2.00	3.35	-----	-----	22 05	2897						
5.10	10.94	11.00	9.86	10.00	1.08	1.00	2.49	2.00	2.49	-----	-----	26 00	3375						
3.17	11.28	11.00	10.92	10.00	0.36	1.00	8.22	8.00	8.22	-----	-----	32 00	3376						

\*Deficient.

TABLE VIII.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2518	KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA. Grangers Superior, -----	Osterburg Grange, Osterburg, -----
3723	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA. Alkaline Crop Grower, -----	E. B. Fritz & Sons Co., Quarryville, -----
2963	LEBANON FERTILIZER WORKS, LEBANON, PA. Levan's Standard Potash Compound, -----	I. E. Artz, Hegins, -----
3421	Levan's Ten and Two, -----	J. A. Walters, Middleburg, -----
3582	F. E. LORD, ESPY, PA. Columbia County Fall Special, -----	F. E. Lord, Espy, -----
2650	THE MILLER FERTILIZER CO., BALTIMORE, MD. Miller's Alkaline Mixture, -----	Chas. Eroh, Weatherly, -----
2693	Miller's 4% Alkaline, -----	Miller T. Harkins, Hickory Hill, -----
3009	Miller's 4% Alkaline, -----	Walter Livengood, Elverson, -----
2848	Miller's 4% Alkaline, -----	E. A. Ungard & Co., Allenwood, -----
2474	Miller's Clinch Phosphate, -----	Hartley & Blaine, Turbotville, -----
2727	Miller's Clinch Phosphate, -----	W. A. Lutz, Lyndell, -----
2306	G. OBER & SONS CO., BALTIMORE, MD. Ober's 10% Superphosphate and Potash, -----	Glossner Implement Co., Lock Haven, -----
2769	OYLER & SPANGLER FERTILIZER WORKS, INC., GETTYSBURG, PA. O. & S. Potash Special, -----	Chas. F. Asper, Aspers, -----
3276	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., BALTIMORE, MD. Patapasco Potash Mixture, -----	F. P. Waite, Tyrone, -----
3275	Patapasco Soluble Phosphate and Potash, -----	F. P. Waite, Tyrone, -----
2819	PATUXENT GUANO COMPANY, BALTIMORE, MD. Alsation Potash Mixture, -----	Dillsburg Grain & Milling Co., Dillsburg, -----
2818	Patuxent Soluble Phosphate and Potash, -----	Dillsburg Grain & Milling Co., Dillsburg, -----
2890	Patuxent Soluble Phosphate and Potash, -----	I. B. Secrist, Millerstown, -----
3199	PIEDMONT MT. AIRY GUANO CO., BALTIMORE MD. Piedmont Special Potash Mixture, -----	Farmers Feed Store, Wellsboro, -----
3587	RAISIN-MONUMENTAL COMPANY, BALTIMORE MD. Rasin's Special Phosphate and Potash, -----	H. B. Low & Son, Orangeville, -----
3686	Rasin's Special Potash Mixture, -----	S. H. Donkel, Myerstown, -----
3678	READING BONE FERTILIZER CO., READING, PA. Economy Brand, -----	Coulter & Coulter, Grove City, -----
2261	Economy Brand, -----	Great Valley Mills Co., Exton, -----
2879	Economy Brand, -----	Juniata Pomona Grange, Millintown, -----
2982	READING CHEMICAL COMPANY, READING PA. Crop Producer, -----	W. J. Painter, Tarentum, -----

## POTASH FERTILIZERS—Continued.

POTASH FERTILIZERS—Continued.												
Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	\$	
3.66	13.22	11.00	12.42	10.00	0.80	1.00	5.72	5.00	5.72	-----	24 05	2548
3.50	10.08	11.00	10.00	10.00	0.08	1.00	2.07	2.00	2.07	-----		3723
7.50	12.19	13.00	12.05	12.00	0.14	1.00	4.66	4.00	4.66	-----	24 00	2363
4.85	10.14	11.00	10.02	10.00	0.12	1.00	2.33	2.00	2.33	-----	26 00	3421
7.57	12.16	12.50	12.02	12.00	0.14	0.50	6.49	5.00	6.49	-----	25 00	3582
3.92	12.81	12.50	12.11	12.00	0.70	0.50	2.43	2.00	2.43	-----		2650
1.78	10.04	10.50	*9.48	10.00	9.56	0.50	4.39	4.00	4.39	-----		2693
4.80	10.68	-----	9.99	10.00	0.69	0.50	4.43	4.00	4.43	-----	22 40	3009
5.45	11.65	10.50	11.15	10.00	0.50	0.50	4.10	4.00	4.10	-----	25 50	2348
5.15	11.65	10.50	11.11	10.00	0.54	0.50	1.90	2.00	1.90	-----	25 90	2474
3.38	11.90	10.50	11.62	10.00	0.36	0.50	1.85	2.00	1.85	-----		2727
6.36	11.68	11.00	10.76	10.00	0.92	1.00	2.29	2.00	2.29	-----	27 50	2306
8.56	12.49	12.50	12.19	12.00	0.30	0.50	5.50	5.00	5.50	-----	25 50	2769
3.00	10.98	11.00	10.24	10.00	0.74	1.00	4.70	4.00	4.70	-----	23 00	3276
4.14	10.93	11.00	10.25	10.00	0.68	1.00	2.37	2.00	2.37	-----	20 00	3275
4.35	8.89	9.00	8.53	8.00	0.36	1.00	4.93	5.00	4.93	-----	24 00	2819
5.61	10.78	11.00	10.20	10.00	0.58	1.00	2.58	2.00	2.58	-----	22 25	2818
3.75	11.19	11.00	10.05	10.00	1.14	1.00	3.67	2.00	3.67	-----	21 25	2890
4.80	11.15	11.00	10.37	10.00	0.78	1.00	5.94	5.00	5.94	-----	28 00	3199
1.57	11.74	11.00	10.50	10.00	1.24	1.00	5.36	5.00	5.36	-----	25 50	3687
3.97	10.27	9.00	9.57	8.00	0.70	1.00	*4.21	5.00	4.21	-----	24 25	3696
10.80	10.27	11.00	10.13	10.00	0.14	1.00	4.16	4.00	4.16	-----	32 50	3678
9.96	10.43	11.00	10.11	10.00	0.32	1.00	4.10	4.00	4.10	-----	27 00	2261
10.25	10.41	11.00	10.23	10.00	0.18	1.00	4.25	4.00	4.25	-----	15 98	2879
2.56	9.96	9.00	9.44	8.00	0.52	1.00	5.18	5.00	5.18	-----	27 50	2982

\*Deficient.

TABLE VIII.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	ROBERT A. REICHARD, ALLENTOWN, PA.			
3327	Reichards American Eagle, -----		H. B. Goho & Son, Emaus, -----	
3465	Reichards Ideal Phosphate, -----		S. R. Staudt, Bowers, -----	
	F. S. ROYSTER GUANO CO., BALTI-MORE MD.			
2728	Royster's 8-5 Phosphate and Potash, -----		Wm. H. Cook, Dowingtown, -----	
2845	Royster's 8-5 Phosphate and Potash, -----		Farmers Supply Co., New Castle, -----	
3385	Royster's 8-5 Phosphate and Potash, -----		Tionesta Milling Co., Tionesta, -----	
2255	Royster's 10-2 Phosphate and Potash, -----		Great Valley Mills Co., Exton, -----	
3351	Royster's 10-2 Phosphate and Potash, -----		Chas. O. Salberg, Ridgway, -----	
2633	Royster's 12-5 Phosphate and Potash, -----		H. Chaapels, Williamsport, -----	
2729	Royster's 12-5 Phosphate and Potash, -----		Wm. H. Cook, Dowingtown, -----	
	SWIFT & COMPANY, BALTIMORE, MD.			
2928	Swift's Farmers Home, -----		Keystone Tractor & Implement Co., Har-risburg, -----	
3161	Swift's Farmers Home, -----		Adam Schmehl, North Wales, -----	
3531	Swift's Farmers Home, -----		Wyalusing Hay Co., Wyalusing, -----	
3725	Swift's Special High Grade Phosphate and Potash, -----		E. B. Fritz & Sons Co., Quarryville, -----	
2985	Swift's Wheat Grower Phosphate and Potash, -----		Keystone Tractor & Implement Co., Har-risburg, -----	
3497	Swift's Wheat Grower Phosphate and Potash, -----		A. E. Woodruff & Son, Wysox, -----	
	I. P. THOMAS & SON COMPANY, PHILADELPHIA, PA.			
2428	Alkaline Fertilizer 0-10-2, -----		P. E. Martz, Washingtonville, -----	
2464	Special Alkaline 0-12-3, -----		Geo. B. Kase, Danville, -----	
	UNITED STATES GUANO CO., BALTIMORE, MD.			
3056	Standard United States High Grade Phosphate and Potash, -----		Edw. W. Rupert, Oxford, -----	
	WASHINGTON, ALEXANDER & COOKE CO., CHARLES TOWN, W. VA.			
2760	Wacco Eight and Six, -----		E. S. Kelly, Gettysburg, -----	
3717	Wacco Eight and Six, -----		Quarryville Farmers Association, Quarryville, -----	
	THE WORLD'S FERTILIZER PROCESS CO., SHARPSBURG, PA.			
3138	Shur-Gro, -----		Geo. Hull & Sons, Hanover, -----	
2239	Shur Gro, -----		L. Todd Owens, Apollo, -----	
2953	Shur Gro, -----		Walker, Diehl & Walker, Chambersburg, -----	
2847	Shur Gro, -----		Weeks Hardware Co., Scranton, -----	
	YORK CHEMICAL WORKS, YORK, PA.			
2948	Ten and Two, -----		Enos H. Horst, Chambersburg, -----	
3535	Twelve and Four, -----		I. S. Cogswell, Meshoppen, -----	
3113	Twelve and Four, -----		P. J. Stine, Muncy, -----	
			Average, -----	



## POTASH FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	\$	
1.68	11.35	11.00	9.89	10.00	1.46	1.00	3.00	2.00	3.00	-----	24 50	3327
4.60	12.51	-----	12.31	12.00	0.20	1.00	5.40	5.00	5.40	-----	26 00	345
5.00	8.30	8.50	8.04	8.00	0.26	0.50	5.07	5.00	5.07	-----	26 00	2728
4.08	8.19	8.50	*7.71	8.00	6.48	0.50	5.14	5.00	5.14	-----	-----	2845
5.60	8.42	8.50	8.02	8.00	0.40	0.50	5.02	5.00	5.02	-----	30 00	3385
7.81	10.41	10.50	9.91	10.00	0.50	0.50	2.33	2.00	2.33	-----	24 50	2255
3.60	11.37	10.50	10.75	10.00	0.62	0.50	4.31	2.00	4.31	-----	-----	3351
6.40	12.86	12.50	12.28	12.00	0.58	0.50	5.03	5.00	5.03	-----	37 00	2633
2.37	13.28	12.50	12.70	12.00	0.58	0.50	5.16	5.00	5.16	-----	29 01	2729
3.90	11.28	10.00	10.82	10.00	0.46	-----	4.53	4.00	4.53	-----	24 50	2928
3.70	10.32	10.00	9.87	10.00	0.46	-----	4.11	4.00	4.11	-----	28 00	3161
1.60	10.61	10.00	10.47	10.00	0.14	-----	4.42	4.00	4.42	-----	23 00	3531
7.75	12.03	12.00	*11.79	12.00	0.24	-----	5.12	5.00	5.12	-----	-----	3726
2.60	12.77	12.00	†2.31	12.00	0.46	-----	2.79	2.00	2.79	-----	24 25	2985
1.85	12.83	12.00	12.29	12.00	0.54	-----	2.33	2.00	2.33	-----	24 00	3497
8.05	12.25	10.50	10.83	10.00	1.42	0.50	2.30	2.00	2.30	-----	20 00	2428
9.83	13.32	12.60	12.76	12.00	0.56	0.50	3.16	3.00	3.16	-----	25 25	2464
4.20	12.49	-----	*11.75	12.00	0.74	0.50	5.45	5.00	5.45	-----	27 00	3056
2.58	9.93	9.00	9.37	8.00	0.56	1.00	5.82	6.00	5.82	-----	23 75	2760
5.73	9.39	9.00	8.71	8.00	0.68	1.00	*5.59	6.00	5.59	-----	24 00	3717
†2.89	†8.10	5.50	†7.44	5.00	†0.66	0.50	††2.62	2.00	-----	-----	†70 00	3138
†4.24	†8.29	5.50	†7.55	5.00	†0.74	0.50	††3.50	2.00	-----	-----	†50 00	2239
†2.65	†7.96	5.50	†7.20	5.00	†0.76	0.50	††2.83	2.00	-----	-----	†90 00	2953
†1.90	†7.56	5.50	†6.80	5.00	†0.70	0.50	††2.39	2.00	-----	-----	†60 00	2847
7.00	11.38	10.00	10.70	10.00	0.68	-----	2.05	2.00	2.05	-----	21 00	2948
2.53	13.09	12.00	11.99	12.00	1.10	-----	4.42	4.00	4.42	-----	-----	35 5
10.00	13.14	12.00	11.83	12.00	1.31	-----	4.26	4.00	4.26	-----	24 30	3113
5.28	11.09	-----	10.48	-----	0.61	-----	4.13	-----	-----	-----	25 32	-----

\*Deficient.

†Potash present as carbonate.

‡Excluded from average.

TABLE IX.—MISCEL

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
NITRATE OF SODA.		
THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
2357	Nitrate of Soda, -----	Samuel Buffington, Sacramento, -----
2282	Nitrate of Soda, -----	Gibson-Clark Co., Indiana, -----
3079	Nitrate of Soda, -----	H. P. Passmore & Brother, Oxford, -----
3029	Nitrate of Soda, -----	Stanley R. White, Clarke Summit, -----
ARMOUR FERTILIZER WORKS, BALTIMORE, MD.		
3438	Armour's Big Crop Nitrate of Soda, -----	John G. Miller, Pine Grove Mills, -----
2571	Armour's Big Crop Nitrate of Soda, -----	H. V. Runk, Pillow, -----
ASSOCIATED CHEMICAL COMPANY, HAGGERSTOWN, MD.		
3741	Nitrate of Soda, -----	N. J. Miller Co., Elk Lick, -----
2984	Nitrate of Soda, -----	W. J. Painter, Tarentum, -----
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
2832	Nitrate of Soda, -----	P. J. Osterling & Son, Butler, -----
3422	Nitrate of Soda, -----	J. O. Wagner, Beaver Springs, -----
GRIFFITH & BOYD CO., BALTIMORE, MD.		
2450	Nitrate of Soda, -----	Morris C. Bohn, Barnville, -----
KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.		
3552	Nitrate Soda, -----	Jos. Driesbach, Leighton, -----
2537	Nitrate Soda, -----	Spring Valley Grange, Fishertown, -----
LEBANON FERTILIZER WORKS, LEBANON, PA.		
2360	Nitrate of Soda, -----	I. E. Artz, Hegins, -----
3122	Nitrate of Soda, -----	H. H. Lundy, Montoursville, -----
2591	Nitrate of Soda, -----	Solomon & Waltz, Antes Fort, -----
3014	Nitrate of Soda, -----	A. B. Walker, Hamlin, -----
F. E. LORD, ESPY, PA.		
3585	Nitrate of Soda, -----	F. E. Lord, Espy, -----
THE MILLER FETILIZER CO., BALTIMORE, MD.		
2608	Nitrate of Soda, -----	Herman Keeble, Montoursville, -----
G. OBER & SONS CO., BALTIMORE, MD.		
2616	Nitrate of Soda, -----	Wm. Poust, Hughesville, -----
PENNSYLVANIA FARMERS COOPERATIVE FEDERATION, INC., HARRISBURG, PA.		
3636	Nitrate Soda, -----	Farmers Cooperative Federation, Lock Haven.
READING BONE FERTILIZER CO., READING, PA.		
2375	Nitrate of Soda, -----	W. H. Maurer, Hegins, -----
3594	Nitrate of Soda, -----	John A. Miller, Cressona, -----
READING CHEMICAL COMPANY, READING, PA.		
2646	Nitrate of Soda, -----	J. M. Lucas, Valley View, -----

## LANEOUS FERTILIZERS.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.	
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.							
%	%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.51	15.74	15.00												59 60	2377
1.13	15.44	15.00												60 50	2282
0.90	15.58	15.00												61 30	3079
0.76	15.58	15.00												62 10	3020
0.54	15.38	14.81												56 00	3438
1.06	15.36														2517
2.15	15.64	15.00												50 00	3741
0.95	15.62	15.00												71 50	2984
0.30	15.70	15.23												76 00	2832
1.00	15.52	15.23												62 00	3422
1.30	15.30	15.00												65 30	2450
0.30	15.20														3552
0.47	15.58													60 00	2557
0.55	15.30	15.01												56 00	2360
2.00	15.28	15.01												61 50	3122
1.52	15.38	15.01												60 00	2591
1.21	15.26	15.01												43 95	3014
1.95	15.14	15.00												60 00	3585
1.77	*14.56	15.22												65 00	2608
0.60	15.74	14.85												58 30	2616
0.75	15.06														3636
0.46	15.62													53 00	2375
0.53	*14.52	15.00												58 00	3504
1.36	15.84														2645

\*Deficient.

TABLE IX.—MISCEL

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
3472	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Nitrate of Soda, -----	J. A. Gardner, Moscow, -----
3025	SWIFT & COMPANY, BALTIMORE, MD. Swift's Nitrate of Soda, -----	B. E. & J. F. Cokley, Seranton, -----
2797	Swift's Nitrate of Soda, -----	Lancaster County Cooperative Potato Growers Association, Lancaster.
2448	I. P. THOMAS & SON COMPANY, PHILADELPHIA, PA. Nitrate of Soda, -----	Monroe A. Weik, Sheridan, -----
2719	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA. Nitrate of Soda, -----	L. R. Levengood, Pottstown, -----
3330	UNION CHEMICAL WORKS, INC., NORTH WALES, PA. Nitrate of Soda, -----	Henry M. Kramer, So. Perkasia, -----
2849	UNITED STATES GUANO CO., BALTIMORE, MD. Nitrate of Soda, -----	G. R. Clark, Seranton, -----
2679	Nitrate of Soda, -----	C. C. Pollock, Marion Center, -----
3548	YORK CHEMICAL WORKS, YORK, PA. Nitrate of Soda, -----	E. A. Beck, Lehighton, -----
2502	Nitrate of Soda, -----	Lancaster County Farmers Supply Co., Manheim. Average, -----
	SULPHATE OF AMMONIA.	
2385	THE AMERICAN AGRICULTURAL CHEM- ICAL CO., NEW YORK, N. Y. Sulphate of Ammonia, -----	J. A. Crilly, Imber, -----
2991	THE BARRETT COMPANY, NEW YORK, N. Y. Arcadian Sulphate of Ammonia, -----	Bunker Hill Grange, Jonestown, -----
2782	Arcadian Sulphate of Ammonia, -----	Plair Knisely, Reynoldsdale, -----
2720	Arcadian Sulphate of Ammonia, -----	L. R. Levengood, Pottstown, -----
2597	BAUGH & SONS COMPANY, PHILADEL- PHIA, PA. Sulphate of Ammonia, -----	G. W. Bennett, Williamsport, -----
2799	Sulphate of Ammonia, -----	A. P. Marshall, Smicksburg, -----
3146	NITRATE AGENCIES COMPANY, NEW YORK, N. Y. Naco Brand Sulphate of Ammonia, -----	Red Lion Farmers Association, Red Lion, -----
3217	F. S. ROYSTER GUANO COMPANY, BAL- TIMORE, MD. Sulphate of Ammonia, -----	Otto E. Knoll, Cherry Tree, -----
3148	YORK CHEMICAL WORKS, YORK, PA. Sulphate of Ammonia, -----	Red Lion Farmers Association, Red Lion, Average, -----

## PLANEUS FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.84	15.56	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	58 00	3472
1.27	15.52	14.82	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	70 00	3025
0.62	14.82	14.82	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	52 40	2797
0.46	15.70	15.21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2448
0.45	15.64	14.81	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	66 50	2719
0.62	15.62	15.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	71 00	3330
1.14	15.60	14.76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	58 00	2849
0.70	15.20	14.76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	70 50	2679
1.02	15.38	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3548
1.51	15.54	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	54 50	2502
0.96	15.39	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	61 10	-----
0.25	21.38	20.16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	60 00	2385
0.36	20.82	20.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	65 00	2991
0.30	21.08	20.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	70 00	2282
0.95	21.02	20.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	68 50	2720
0.40	21.70	20.57	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	per lb.	2597
0.40	20.68	20.57	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	†5c.	2279
0.05	21.40	20.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	71 80	3146
0.33	21.24	20.57	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	72 00	3217
0.17	21.00	20.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	71 80	3143
0.35	21.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	67 85	-----

†Excluded from average.



TABLE IX.—MISCEL.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	DRIED BLOOD.	
3027	SWIFT & COMPANY, BALTIMORE, MD. Swift's Ground Dried Blood, -----	B. E. & J. F. Cokley, Seranton, -----
3145	YORK CHEMICAL WORKS, YORK, PA. Dried Ground Blood, -----	Red Lion Farmers Association, Red Lion, Average, -----
	DRIED FISH.	
2213	THE AMERICAN AGRICULTURAL CHEM- ICAL CO., NEW YORK, N. Y. Dry Ground Fish, -----	E. H. Keen & Son, Parkesburg, -----
3630	NITRATE AGENCIES COMPANY, NEW YORK, N. Y. Ground Dried Fish, -----	A. R. Johnson, Wellsboro, -----
2904	SWIFT & COMPANY, BALTIMORE, MD. Swift's Dried Fish, -----	Lancaster County Cooperative Potato Growers Association, Lancaster. Average, -----
	TANKAGE.	
3078	THE AMERICAN AGRICULTURAL CHEM- ICAL CO., NEW YORK, N. Y. Ground Tankage 6-30, -----	H. P. Passmore & Brother, Oxford, -----
3424	Ground Tankage 9-20, -----	O. B. Sanders, Beavertown, -----
2659	BAUGH & SONS COMPANY, PHILADEL- PHIA, PA. Ground Tankage, -----	Passmore & Co., Nottingham, -----
3218	High Grade Tankage, -----	Otto E. Knoll, Cherry Tree, -----
3329	LOUIS BURK, PHILADELPHIA, PA. Slaughter House Tankage, -----	Henry M. Kramer, South Perkaspie, -----
2500	LEBANON FERTILIZER WORKS, LEB- ANON, PA. Levan's Animal Tankage, -----	Solomon & Waltz, Antes Fort, -----
3581	F. E. LORD, ESPY, PA Tankage, -----	F. E. Lord, Espy, -----
3583	Tankage, -----	F. E. Lord, Espy, -----
2912	NITRATE AGENCIES COMPANY, NEW YORK, N. Y. Naco Brand Ground High Grade Tankage, -----	Samuel Wenger, Ephrata, -----
3628	Naco Brand Ground Tankage, -----	A. R. Johnson, Wellsboro, -----
2534	PENNSYLVANIA FARMERS COOPERAT- IVE FEDERATION, INC., HARRIS- BURG, PA. 10% Tankage, -----	Midlin County Farmers Cooperative As- sociation, Lewistown. L. D. Zehner, Tamaqua, -----
2973	10% Tankage, -----	L. D. Zehner, Tamaqua, -----
3508	10% Tankage, -----	
2798	SWIFT & COMPANY, BALTIMORE, MD. Swift's Tankage, -----	Lancaster County Cooperative Potato Growers Association, Lancaster.

## LANEUS FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
9.19	*13.34	13.56											72 00	3027
9.27	13.88	13.12											74 75	3145
9.23	13.59												73 38	
7.20	9.31	8.23	7.73	6.00									57 00	2213
4.55	*7.44	8.22	6.53	4.57										3630
5.88	*17.70		6.03										49 80	2304
5.87	8.15		6.76										53 15	
6.63	5.72	4.94	17.25	13.73									35 00	3078
7.15	9.12	7.41	*6.22	9.15									17 00	3424
4.60	*4.81	5.76	17.22	5.00									45 00	2689
6.60	7.13	5.78	12.40	4.00									62 00	3218
2.64	4.24		21.07										26 00	3329
5.97	6.08	4.94	*8.00	9.00									46 00	2590
7.91	7.78	7.40	10.22	9.15									40 00	3581
5.75	5.89	4.93	*9.67	13.70									30 00	3583
5.45	*7.85	8.22	12.77	4.57									54 00	2012
6.50	6.08	5.75	8.48	6.86										3628
3.36	8.56		15.98										43 00	2534
12.23	*15.35		9.85										44 50	2373
7.45	*17.43		10.06											3598
6.55	*7.71	8.23	*13.57										45 40	2798

\*Deficient.

†Compared with registered guarantee.

TABLE IX.—MISCEL.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	I. P. THOMAS & SON CO., PHILADELPHIA, PA.	
2463	7% Animal Tankage, -----	Geo. B. Kase, Danville, -----
	WASHINGTON, ALEXANDER & COOKE CO., CHARLES TOWN, W. VA.	
3721	Tankage, -----	Quarryville Farmers Association, Quarryville.
	F. L. WINNER, LOCK HAVEN, PA.	
2580	Winner's Tankage, -----	F. L. Winner, Lock Haven, -----
	YORK CHEMICAL WORKS, YORK, PA.	
2504	Dempwolf's High Grade Tankage, -----	Lancaster County Farmers Supply Co., Manheim, -----
	KAINIT.	Average, -----
	G. OBER & SONS CO., BALTIMORE, MD.	
2615	Ober's German Kainit, -----	Wm. Poust, Hughesville, -----
	WASHINGTON, ALEXANDER & COOKE CO., CHARLES TOWN, W. VA.	
2763	Waeco Kainit, -----	E. S. Kelly, Gettysburg, -----
	MURIATE OF POTASH.	Average, -----
	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.	
2214	Muriate of Potash, -----	E. H. Keen & Son, Parkesburg, -----
3028	Muriate of Potash, -----	Stanley R. White, Clark Summit, -----
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
3260	Armour's Big Crop Muriate of Potash, -----	Hibner-Hoover Hardware Co., DuBois, -----
	ASSOCIATED CHEMICAL COMPANY, HAGERSTOWN, MD.	
2983	Muriate of Potash, -----	W. J. Painter, Tarentum, -----
	BAUGH & SONS COMPANY, BALTIMORE, MD.	
2278	Muriate of Potash, -----	A. P. Marshall, Smicksburg, -----
2690	Muriate of Potash, -----	Passmore & Co., Nottingham, -----
	THE DUMONT FERTILIZER CO., INC., PHILADELPHIA, PA.	
3605	Muriate of Potash, -----	A. F. Kimmel, Orwigsburg, -----
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
2451	Muriate of Potash, -----	Morris C. Bohn, Bernville, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
2364	Muriate of Potash, -----	I. E. Artz, Hegins, -----
2930	Muriate of Potash, -----	Bunker Hill Grange, Jonestown, -----
3123	Muriate of Potash, -----	H. H. Lundy, Montoursville, -----
2555	Muriate of Potash, -----	J. H. Wingert, Lewisburg, -----
	NITRATE AGENCIES COMPANY, NEW YORK, N. Y.	
3631	Muriate of Potash, -----	A. R. Johnson, Wellsboro, -----
3152	Naco Brand Muriate of Potash, -----	Red Lion Farmers Association, Red Lion, -----

## LANEOUS FERTILIZERS—Continued.

Moisture	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
9.65	7.21	5.75	*5.37	9.15										2634
4.95	6.23	5.76	8.93											3721
4.66	6.55		9.50										40 00	2580
8.10	7.65	6.58	10.31	10.00									44 50	2504
6.46	6.74		10.94										40 89	
4.13									15.31	12.00	15.31		12 75	2615
0.50									13.34	12.00	13.34		20 00	2763
2.31									14.33				16 38	
0.53									50.56	48.00	50.56		45 00	2214
2.30									49.95	48.00	49.95		56 00	3028
3.37									50.40	48.00	50.40		48 60	3260
0.45									52.12	50.00	52.12		50 00	2983
2.37									*44.23	48.00	44.23		58 00	2278
1.78									49.01	48.00	49.01		45 00	2390
0.10									60.06		60.06		42 00	3005
0.43									50.62	50.00	50.62		58 00	2451
0.25									52.61	50.00	52.61		24 00	2364
0.75									52.09	50.00	52.09		45 00	2990
0.87									*49.50	50.00	49.50		41 00	3723
0.35									51.69	50.00	51.69		50 00	2355
0.15									50.95	48.00	50.95			3601
4.60									50.17	50.00	50.17		48 39	3152

\*Deficient.

TABLE IX.—MISCEL.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	PENNSYLVANIA FARMERS COOPERATIVE FEDERATION, INC., HARRISBURG, PA.	
3637	Muriate of Potash, -----	Farmers Cooperative Federation, Lock Haven.
2374	Muriate of Potash, -----	L. D. Zehner, Tamaqua, -----
3600	Muriate of Potash, -----	L. D. Zehner, Tamaqua, -----
	RASIN-MONUMENTAL COMPANY, BALTIMORE, MD.	
3213	Muriate of Potash, -----	T. J. Cressley, Glen Campbell, -----
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	
2305	Muriate of Potash, -----	Glossner Implement Co., Lock Haven, -----
3021	Muriate of Potash, -----	W. C. Headly, Waymart, -----
	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.	
3597	Muriate of Potash, -----	J. H. Long, Orwigsburg, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
3026	Swift's Muriate of Potash, -----	B. E. & J. F. Cokley, Scranton, -----
	UNITED STATES GUANO CO., BALTIMORE, MD.	
2291	Muriate of Potash, -----	Thos. K. George, Homer City, -----
3057	Muriate of Potash, -----	Edw. W. Rupert, Oxford, -----
	YORK CHEMICAL WORKS, YORK, PA.	
3144	Muriate of Potash, -----	Red Lion Farmers Association, Red Lion, -----
3554	Muriate of Potash, -----	Berton Whitaker, Lehighton, -----
	SULPHATE OF POTASH	Average, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
2592	Sulphate of Potash, -----	Solomon & Waltz, Antes Fort, -----
	NITRATE AGENCIES COMPANY, NEW YORK, N. Y.	
2913	Sulphate of Potash, -----	Samuel Menger, Ephrata, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
2796	Swift's Sulphate of Potash, -----	Lancaster County Cooperative Potato Growers Association, Lancaster, -----
	UNITED STATES GUANO CO., BALTIMORE, MD.	
2680	Sulphate of Potash, -----	C. C. Pollock, Marion Center, -----
	YORK CHEMICAL WORKS, YORK, PA.	
2503	Sulphate of Potash, -----	Lancaster County Farmers Supply Co., Manheim, -----
	MISCELLANEOUS.	Average, -----
	BONE-DRY LIME CORPORATION, CASADAGA, N. Y.	
2969	Humo-Phos, -----	Wm. Gates Estate, Kittanning, -----
2827	Humo-Phos, -----	Thos. L. Nicolls, Conneautville, -----
3379	Humo-Phos, -----	Union Coal & Supply Co., Union City, -----
3663	Marie Humus 50-50, -----	J. H. Brooks, Beaver Falls, -----
3380	Marie Humus 50-50, -----	Union Coal & Supply Co., Union City, -----



## LANEUS FERTILIZERS—Continued.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.07									50.69	50.00	50.69			2637
1.14									*49.70	50.00	49.70		41 55	2374
2.65									51.79	50.00	51.79			3000
0.45									53.23	48.00	53.23		57 60	3212
0.41									51.76	49.00	51.76		65 00	2305
0.92									52.27	49.00	52.27		56 00	3021
0.55									52.82		52.82		50 00	3597
1.05									52.93	50.00	52.93		50 00	3026
0.50									*48.69	50.00	48.69		45 00	2291
0.30									*49.58	50.00	49.58			3057
0.15									52.79	50.00	52.79		48 30	3144
0.70									51.61	50.00	51.61		54 00	3554
1.12									51.22				50 55	
1.30									50.43	50.00		50.43	61 00	2592
1.40									48.96	47.00		48.96	65 00	2913
2.82									*47.77	50.00		47.77	56 90	2796
0.43									*48.80			48.80	60 50	2680
0.83									49.18	48.00		49.18	53 00	2503
1.35									49.03				59 08	
3.67	0.63	0.82	8.47	9.64	0.71	0.64	7.76	9.00					35 00	2900
4.40	*0.55	1.00	9.25	9.75	0.65	0.64	8.60	9.11					30 00	2827
4.04	*0.68	1.00	7.36	9.75	0.72	0.64	6.64	9.11					33 00	3379
4.50	*0.72	1.00	1.21		*0.00		1.21						20 00	3608
6.00	*0.65	1.00	0.59		*0.00		0.50						23 00	3380

\*Deficient.

†Compared with registered guarantee.

TABLE IX.—MISCEL

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2369	LEBANON FERTILIZER WORKS, LEBANON, PA. Special Mixture, -----	I. E. Artz, Hegius, -----
2642	PENNSYLVANIA FARMERS COOPERATIVE FEDERATION, INC., HARRISBURG, PA. Nitrate of Soda, (Mixture of Nitrate of Soda and Acid Phosphate).	L. D. Zehner, Tamaqua, -----
2218	YORK CHEMICAL WORKS, YORK, PA. Special Mixture 2-8-10, -----	H. A. Mendenhall, Toughkenamon, -----

## LANEUS FERTILIZERS — Concluded.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
3.64	5.20	-----	8.61	-----	5.57	-----	3.04	-----	16.93	-----	16.93	-----	42 00	2369
5.74	10.42	-----	4.69	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2642
8.46	1.69	-----	9.41	-----	8.53	-----	0.88	-----	9.91	-----	9.91	-----	37 00	2218

